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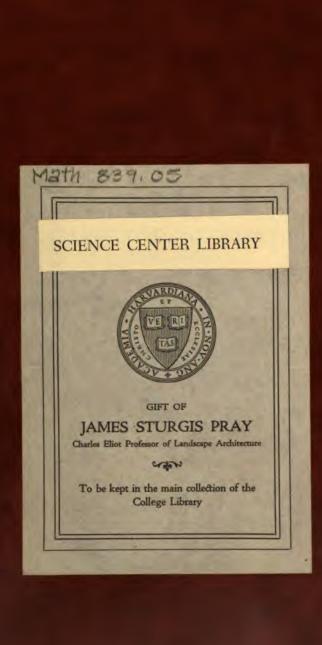
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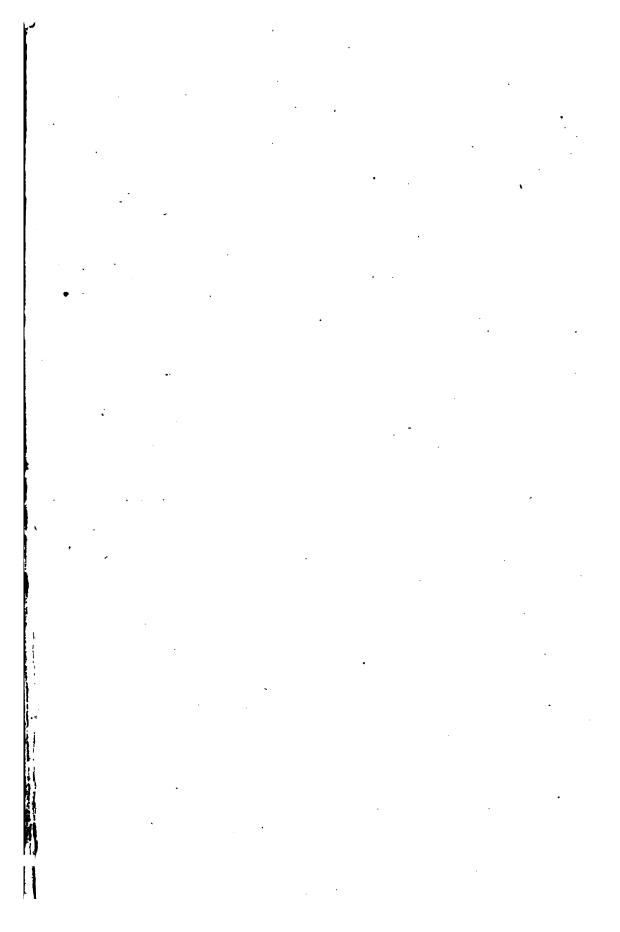
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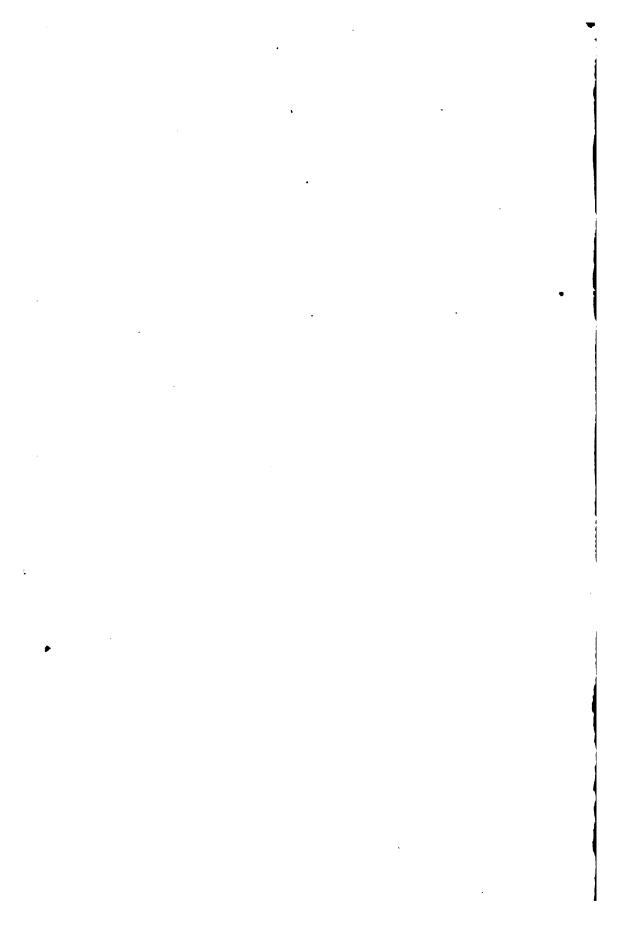
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## SIX PLACE LOGARITHMIC TABLES

#### PREPARED BY

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#### INTRODUCTION.

#### I. USE OF THE TABLE OF LOGARITHMS OF NUMBERS.

This table (pages 2 to 16) gives the mantissæ of the logarithms of all numbers of four figures from 1000 to 10000, calculated to six places of decimals.

#### To find the logarithm of any number of four figures.

Find in the column N. .the first three figures of the given number. Then the required mantissa will be found in the corresponding horizontal line, in the vertical column headed by the fourth figure of the number.

If only the last four figures of the mantissa are found, the first two may be obtained from the nearest mantissa above, in the same column, which contains six figures.

Finally, prefix the proper characteristic.

For example,

 $\log 140.8 = 2.148603$ ;

 $\log .05837 = 8.766190 - 10.$ 

For numbers of one, two, or three figures, the column headed 0 may be used; for log 167 has the same mantissa as log 1670, log 8.3 the same mantissa as log 8300, and log .9 the same mantissa as log 9000; thus,

 $\log 167 = 2.222716$ ,  $\log 8.3 = 0.919078$ , and  $\log .9 = 9.954243 - 10$ .

#### To find the logarithm of a number of more than four figures.

Required the logarithm of 3296.78.

We find from the table,  $\log 3296 = 3.517987$ ;

 $\log 3297 = 3.518119.$ 

That is, an increase of one unit in the number produces an increase of .000132 in the logarithm.

Then an increase of .78 of a unit in the number will produce an increase of  $.78 \times .000132$  in the logarithm, or .000103 to the nearest sixth decimal place.

Whence,  $\log 3296.78 = 3.517987 + .000103 = 3.518090$ .

Note I. The foregoing method is based on the assumption that the differences of logarithms are proportional to the differences of their corresponding numbers, which, though not strictly accurate, is sufficiently exact for practical purposes.

Note II. The difference between any mantissa in the table and the mantissa of the next higher number of four figures, is called the tabular difference.

The following rule is derived from the above:

Find from the table the mantissa of the first four significant figures, and the tabular difference. (See Note III.)

Multiply the latter by the remaining figures of the number with a decimal point before them. (See Note IV.)

Add the result to the mantissa of the first four figures, and prefix the proper characteristic.

Example. Find the logarithm of .002243076.

Note III. The tabular difference may be conveniently found as follows:

Subtract the last figure of the mantissa from the last figure of the next greater, and then take the nearest integer, ending in that figure, to the number in the column D. in the same line.

Thus, in the above example, the last figure of the mantissa of 2243 is 9, and of the next greater mantissa, 3; 9 from 13 leaves 4, and the nearest integer, ending in 4, to 193, the number in the column D., is 194, the proper tabular difference.

Note IV. In finding the correction to the nearest unit's figure, the decimal portion may be omitted provided that, if it is equal to or greater than .5, the unit's figure is increased by 1.

Thus, 13.26 would be taken as 13; 30.5 as 31; and 22.803 as 23.

#### To find the number corresponding to a logarithm.

1. Required the number whose logarithm is 1.693551.

Find in the table the mantissa 693551.

In the corresponding line, in the column N., we find 493, the first three figures of the required number, and at the head of the column we find 8, the fourth figure.

Since the characteristic is 1, there must be two figures to the left of the decimal point.

Whence, number corresponding to 1.693551 = 49.38.

2. Required the number whose logarithm is 3.950185.

We find in the table the mantissa 950170, whose corresponding number is 8916, and the mantissa 950219, whose corresponding number is 8917.

That is, an increase of 49 in the mantissa produces an increase of one unit in the number corresponding.

Then an increase of 15 in the mantissa will produce an increase of  $\frac{15}{49}$  of a unit in the number corresponding, or .31 nearly.

Whence, number corresponding = 8916 + .31 = 8916.31.

The following rule is derived from the above:

Find from the table the next less mantissa, the four figures corresponding, and the tabular difference. (See Note III.)

Subtract the next less mantissa from the given mantissa, and divide the remainder by the tabular difference. (See Note VI.)

Annex the quotient to the first four figures of the number, and point off the result. (See Note V.)

Note V. The rules for pointing off are the reverse of the rules for characteristic; they may be stated as follows:

I. If -10 is not written after the mantissa, add 1 to the characteristic, giving the number of places to the left of the decimal point.

II. If -10 is written after the mantissa, subtract the positive part of the characteristic from 9, giving the number of ciphers to be placed between the decimal point and first significant figure.

Example. Find the number whose logarithm is 7.427662 - 10.

#### 427662

Next less mantissa = 427648; four figures corresponding = 2677.

Tabular difference = 163)14.000(.085 = .09, nearly.

 $\frac{1304}{960}$ 

Result, .00267709.

Note VI. The correction can usually be depended upon to two decimal places; the division should be carried out to three decimal places in order to determine the last figure accurately. (See Note IV.)

#### II. USE OF THE TABLE OF LOGARITHMIC SINES, COSINES, ETC.

This table (pages 18 to 62) gives the logarithms of the sines, cosines, tangents, and cotangents of all angles at intervals of one minute from 0° to 90°.

For angles between 0° and 45°, the degrees will be found at the top of the page, the minutes in the left-hand column, and the functions in the columns designated by the names at the top; that is, sines in the first column, cosines in the second, tangents in the third, and cotangents in the fourth.

For angles between 45° and 90°, the degrees will be found at the *foot* of the page, the minutes in the *right-hand* column, and the functions in the columns designated by the names at the *foot*; that is, cosines in the first column, sines in the second, cotangents in the third, and tangents in the fourth.

The sines and cosines of all acute angles, the tangents of angles between  $0^{\circ}$  and  $45^{\circ}$ , and the cotangents of angles between  $45^{\circ}$  and  $90^{\circ}$ , being less than unity, the characteristics of their logarithms have been increased by 10, and -10 must be written after their mantissæ; in all other cases, the true value of the characteristic is given in the table.

Thus,  $\log \sin 38^{\circ} 37' = 9.795259 - 10;$   $\log \tan 66^{\circ} 20' = 0.358253;$   $\log \cot 79^{\circ} 3' = 9.286624 - 10;$   $\log \cos 85^{\circ} 51' = 8.859546 - 10.$ 

To find the logarithmic sine, cosine, tangent, or cotangent of any acute angle expressed in degrees, minutes, and seconds.

Find from the table the logarithmic sine, cosine, tangent, or cotangent of the degrees and minutes, and the difference for 1" corresponding. (See Note VII. below.)

Multiply this difference by the number of seconds. (See Note IV.)

If sine or tangent, add

If cosine or cotangent, subtract

this correction.

Note VII. The columns immediately to the right of those headed "Sin.," "Cos.," and "Tan.," contain the respective differences for 1"; the right-hand column of differences is also to be used with the column headed "Cot."

It will be observed that the differences do not stand in the same horizontal line with the logarithms, but opposite the intervals between consecutive logarithms. With the degrees at the top of the page, the difference next below should be taken; with the degrees at the foot of the page, the difference next above.

Note VIII. The rule given above assumes that the differences of the logarithmic functions are proportional to the differences of their corresponding angles, which, unless the angle is very near to  $0^{\circ}$  or  $90^{\circ}$ , is in general sufficiently exact for practical purposes. (See page x.)

1. Find log tan 17° 13′ 51″.

log tan 17° 13' = 9.491180 - 10 D. 1" = 7.45   
Result, 
$$9.491560 - 10$$
  $\frac{51}{745}$   $\frac{3725}{379.95} = 380$ , nearly.

2. Find log cos 66° 38′ 23″.

To find the acute angle corresponding to a given logarithmic sine, cosine, tangent, or cotangent.

Take from the table, if sine or tangent, the next less, if cosine or cotangent, the next greater, logarithmic function, the degrees and minutes corresponding, and the difference for 1". (See Note IX. below.)

Find the difference between the given logarithm and that taken from the table, and divide it by the difference for 1", giving the correction in seconds.

Add the result to the degrees and minutes.

Note IX. In searching for the next less (or greater) logarithm, attention must be paid to the fact that the functions are found in different columns according as the angle is below or above 45°.

If, for example, the next less logarithmic sine is found in the column with "Sin." at the top, the degrees must be taken from the top of the page, and the minutes from the left-hand column; but if it is found in the column with "Sin." at the foot, the degrees must be taken from the foot of the page, and the minutes from the right-hand column. Similar considerations hold with respect to the other three functions.

1. Find the angle whose  $\log \sin = 9.959345 - 10$ .

$$\begin{array}{c} 9.959345-10 \\ \text{Next less log sin} = \underbrace{9.959310-10}_{9.959310-10}; \text{ angle corresponding} = 65^{\circ}35'. \\ \text{D. 1"} = & \underbrace{\phantom{0}.97)35}_{590} (36.08=36.1, \text{ nearly.} \\ & \underbrace{\phantom{0}.991}_{590} \\ & \phantom{0}.582 \end{array}$$

800

Result, 65° 35′ 36.1″.

viii

2. Find the angle whose  $\log \cot = 0.169602$ .

Next greater  $\log \cot = 0.169651$ ; angle corresponding = 34° 5′. 0.169602

D. 
$$1'' = \overline{4.53})49(10.81 = 10.8, \text{ nearly.}$$

$$\begin{array}{r} 453 \\ \hline 3700 \\ \hline 3624 \\ \hline \end{array}$$
Result, 34° 5′ 10.8″.

Note X. In finding the logarithmic sine of an angle between 85° and 90°, or the logarithmic cosine of an angle between 0° and 5°, it is better to obtain the correction by multiplying the difference between the next less and next greater logarithms by the number of seconds, and dividing the result by 60.

In finding the angle corresponding in the same cases, the correction in seconds may be obtained by multiplying the difference between the given logarithm and that taken from the table by 60, and dividing the result by the difference between the next less and next greater logarithms.

### To find the logarithmic secant or cosecant of any acute angle.

Since 
$$\sec x = \frac{1}{\cos x}$$
 and  $\csc x = \frac{1}{\sin x}$ , we have

 $\log \sec x = \operatorname{colog} \cos x$ , and  $\log \csc x = \operatorname{colog} \sin x$ .

Hence, to find the logarithmic secant, subtract the logarithmic cosine from 10-10; and to find the logarithmic cosecant, subtract the logarithmic sine from 10-10.

Example. Find log sec 22° 38'.

From the table, we find  $\log \cos 22^{\circ} 38' = 9.965195 - 10$ .

Subtracting from 10 - 10,  $\log \sec 22^{\circ} 38' = 0.034805$ .

**Note XI.** The logarithmic cotangent of an angle may be obtained by subtracting the logarithmic tangent from 10-10.

To find the logarithmic functions of an angle not lying between the limits 0° and 90°.

Any function of any angle may be expressed as a function of a certain acute angle; and hence the table of functions of acute angles serves to determine the functions of angles of any magnitude whatever, positive or negative.

Let it be required, for example, to find log sin 152° 16'.

We have,  $\sin 152^{\circ} 16' = \sin(90^{\circ} + 62^{\circ} 16') = \cos 62^{\circ} 16'$ .

Whence,  $\log \sin 152^{\circ} 16' = \log \cos 62^{\circ} 16' = 9.667786 - 10$ .

Or we may proceed as follows:

$$\sin 152^{\circ} 16' = \sin (180^{\circ} - 27^{\circ} 44') = \sin 27^{\circ} 44'.$$

Note XII. If the natural function is negative, as for example in the case of the cosine of an angle between 90° and 180°, there is no logarithmic function, strictly speaking.

In the solution of examples involving such functions, we may proceed as if the functions were positive, and determine the algebraic sign of the result irrespective of the logarithmic work.

#### III. USE OF THE TABLE OF NATURAL SINES, COSINES, ETC.

This table (pages 64 to 78) gives the natural values of the sines, cosines, tangents, and cotangents of all angles at intervals of 1' from 0° to 90°, calculated for sines, cosines, and tangents to five places of decimals, and for cotangents to five significant figures.

Its use is similar to that of the table of logarithmic functions, except that the tabular differences for 1" are not given, but are to be calculated from the table when required.

1. Required tan 41° 27′ 14″.

$$\tan 41^{\circ} 27' = .88317.$$

The difference between this and tan 41° 28' is 52.

Correction for 
$$14'' = \frac{14}{60} \times 52 = 12$$
, nearly.

2. Required the angle whose cos = .45854.

Next greater cos = .45865; angle corresponding = 62° 42'.

The difference between cos 62° 42' and cos 62° 43' is 26.

Correction in seconds  $=\frac{11}{26} \times 60 = 25.4$ , nearly.

Result, 62° 42′ 25.4″.

Note XIII. To find a natural function to a greater degree of accuracy than is possible from the table of natural functions, we may find the logarithmic function of the angle, and take the number corresponding to the result.

#### IV. USE OF THE AUXILIARY TABLE FOR SMALL ANGLES.

This table (page 79) gives the values of the expressions

$$10 + \log \sin x - \log x$$
 and  $10 + \log \tan x - \log x$ ,

x being expressed in seconds, for all angles at intervals of 1' from 0° to 4° 59'.

It may be used to find the logarithmic sines or tangents of angles between 0° and 5°, or the angles corresponding in the same cases, to a greater degree of accuracy than is possible from the table of logarithmic functions. (See Note VIII.)

#### To find the logarithmic sine or tangent of an angle between 0° and 5°.

Find from the auxiliary table the logarithm corresponding to the given function, add to the result the logarithm of the number of seconds in the angle, and write -10 after the mantissa.

Example. Find log tan 0° 43' 37".

The logarithms corresponding to tan 0° 43' and tan 0° 44' are 4.685597 and 4.685599; the difference between which is 2.

Correction for  $37'' = \frac{37}{60} \times 2 = 1$ , nearly.

Adding to 4.685597, the result is 4.685598.

The given angle, reduced to seconds, is 2617".

$$\begin{array}{c} 4.685598-10\\ \log 2617=3.417804\\ \text{Result,} & 8.103402-10 \end{array}$$

This is correct to the sixth place of decimals; the result by the table of logarithmic tangents is 8.103375 - 10.

To find the angle corresponding to a given logarithmic sine or tangent, when between  $0^{\circ}$  and  $5^{\circ}$ .

Find from the table of logarithmic functions the angle corresponding to the given logarithm, to the nearest second.

 ${\it Take from the auxiliary table the logarithm corresponding to this angle.}$ 

Subtract the result from the given logarithm, and find the number corresponding to the difference, giving the required angle in seconds.

Example. Find the angle whose  $\log \sin = 7.632366 - 10$ .

The angle corresponding is 0° 14′ 45″, to the nearest second.

The logarithm corresponding to  $\sin 0^{\circ} 14' 45''$  is 4.685573 - 10.

7.632366 - 10 4.685573 - 10 2.946793

The number corresponding to this logarithm is 884.69.

Then the required angle is 884.69", or 0° 14' 44.69".

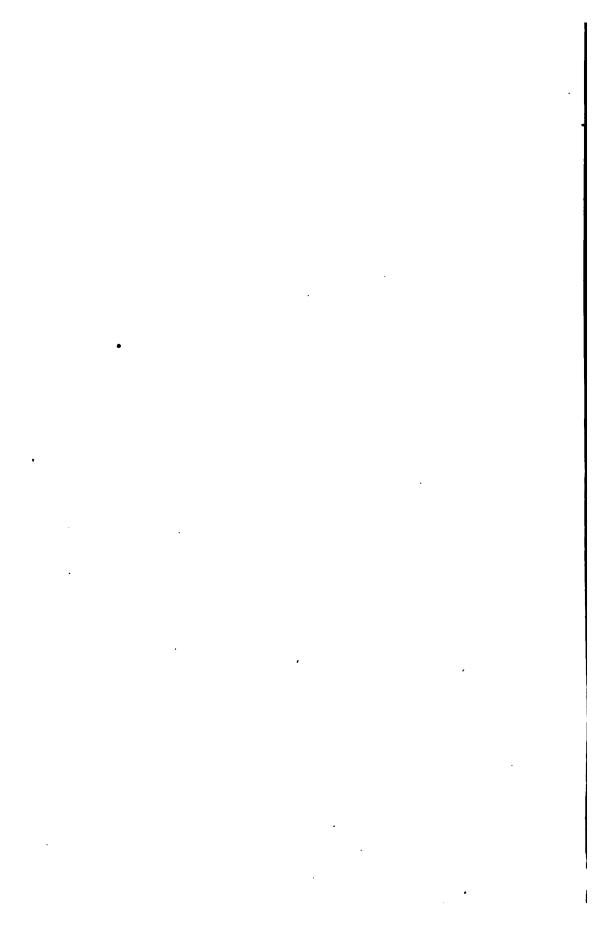
This is correct to the second decimal place of seconds; the result by the table of logarithmic sines is 0° 14′ 45.08″.

Note XIV. The above methods serve to determine with accuracy the logarithmic cosine or cotangent of an angle between 85° and 90°, or the angle corresponding in the same cases.

To find accurately the logarithmic tangent of an angle between  $85^{\circ}$  and  $90^{\circ}$ , find the logarithmic cotangent of the angle as above, and subtract the result from 10-10. (Note XI.)

To find the angle corresponding to a logarithmic tangent in the same case, find the logarithmic cotangent of the angle (Note XI.), and find the angle corresponding to the result.

These methods also serve to determine the logarithmic cotangent of an angle between 0° and 5°, or the angle corresponding in the same case.



## A TABLE

CONTAINING THE

## LOGARITHMS OF NUMBERS

FROM 1 TO 10,000.

101   4321   4751   5181   5609   6038   6466   6894   7321   7748   8174   22 103   103   2837   01 3850   01 4000   4703   01 2837   01 3850   01 4000   4703   4751   7686   8824   8700   9116   9532   9947   02 961   02 0776   01 105   01 105   02 1180   02 1180   02 103   02 2016   02 2428   02 2841   02 3252   02 3664   02 4075   02 4486   02 4896   41 105   02 1180   03 1605   5715   6125   6523   6942   7350   7757   8164   8571   8978   6105   03 3424   03 3424   03 3856   42277   4028   02017   9414   9811   04 1207   04 1203   04 1207   0	N.	0	1	2	3	4	5	6	7	8	9	D.
100   103	100	00 0000	00 0434		00 1301	00 1734	00 2166	00 2598	00 3029	00 3461	00 3891	432
100   01   2837   01   3259   01   3680   01   4100   4100   7968   8884   8700   9116   9532   9947   02   90510   2075   2486   02   4866   02   4806   03   0							•				8174	428
100		8600				, -						424
100				7868	8284							
106   5306   5715   6125   6533   66942   7350   7757   8164   8571   8978   4079   9344   93886   9789   30195   30500   31040   931408   93181   20 32216   32619   33021   40   40   502   40   5				1 -	1 -	_		02 2664		, -		1 ' 1
107   9384   9789   03 1059   03 0050   03 1004   03 1408   03 1812   03 2216   03 2216   04 287   009   7446   7825   8223   8620   9017   9414   9811   04 0207   04 0602   04 0908   3811   04 1393   04 1787   04 2182   04 2576   04 2059   04 3362   04 3757   04 4468   04 4540   04 4908   3830   39   111   05 333   5714   05 05   9933   05 0380   05 0766   05 1735   05 1738   05 1924   05 2300   05 2594   8131   05 3078   05 3463   05 2586   8223   4613   4996   5578   5766   6142   05 230   01 15 0 05 0   05 1452   05 230   05 2580   8225   05 2305   05 2580   05 235   05 236   05 2580			_						8164	8571		408
108   03   3424   03   3826   2427   3628   5029   5430   5830   5830   6230   6230   7028   4098   39   30   11   11   1533   5714   6105   6495												404
110	108	03 3424				5029	5430		6230		7028	400
111	109	7426				- •			1	04 0602	04 0998	397
112   5218   5666   993   05 386   4230   4813   4996   5378   5760   6142   6624   3813   05 3078   05 3463   5384   5760   6142   6632   3781   6164   6804   6804   6804   6805   9185   5963   9942   66 0320   3781   6164   6805   7786   6142   6782								04 3755				393
113   05 3078   05 3463   05 3846   7666   8420   7662   8426   8865   9185			0606	0105	0495		7275					390 386
114   6905   7286   7666   8046   8426   8805   9185   9963   9942   66 323   7815   7816   84832   5206   5580   5580   9583   66 2958   6707   7443   7815   7717   8186   8557   8928   9288   92				05 3846				5378				383
116				7666				9185				379
116	115	06 0698	06 1075	06 1452	06 1829	06 2206	06 2582	06 2958	06 3333	06 3709	06 4083	376
118	1		4832	5206		5953						373
119			8557									370
121	•	, ,					3718					363
121			1								1 . 1	
122   6366   6716   7071   7426   7781   8136   8490   8845   9198   9552   35   9905   9905   9905   99061   99061   99063   991315   99167   992018   5866   6215   6562   34   9906   99422   3772   4122   4471   4820   5169   5518   5866   6215   6562   34   9188   9198   9572   35   90941   99201   99401					3861				5201			
124   09 3422   3772   4122   4471   4820   5169   5518   5866   6215   6562   34     126   10 0371   10 0715   10 1059   10 1403   10 1747   10 2091   02 434   10 2777   10 3119   3462   34     127   3804   4146   4487   4828   5169   5510   5851   6191   6531   3462   34     128   7210   7549   7888   8227   8565   8903   9241   9579   9916   11 0253   33     130   11 3943   11 4277   11 4611   14 444   11 5278   11 2370   11 2655   11 2940   11 3475   3609   33     130   11 3943   11 4277   11 4611   14 444   11 5278   11 5941   12 505   11 2940   11 3475   3609   33     131   7271   7603   7934   8265   8595   8926   9256   9586   9915   12 0243   33     132   12 05074   12 0903   12 1231   12 1560   12 1888   12 2216   12 2244   12 2871   12 3198   3525   33     133   3852   4178   4504   4830   5156   5481   5806   6131   6456   6781   32     135   13 0334   13 0655   13 0977   13 1198   13 1619   13 1939   13 2250   13 2580   13 2900   13 3219   31 3219	122						8136	8490	8845	9198		355
125				1 -					09 2370			
127   3804   4146   4487   4488   5169   5510   5851   6191   6531   6871   3482   3							-					
128				10 7004	09 7951							346
128	1										6871	341
130												338
131	129	11 0590	11 0926		11 1599	11 1934	11 2270	11 2605	11 2940			335
132   12 0574   12 0903   12 1231   12 1560   12 1888   12 2216   12 2544   12 2871   12 3198   3525   32 3383   3852   4178   4504   4830   5156   5481   5806   9368   9690   13 3219   32 135   13 0334   13 0655   13 0977   7354   7671   7496   7877   7354   7671   7497   7354   7671   7498   7354   7671   7498   7498   7354   7498						11 5278						333
133			, , ,			8595						330
134			, , ,		4830		_					325
135					8076	8399						323
137	135	13 0334	13 0655	13 0977	13 1298		13 1939		13 2580		13 3219	321
138	_							5451	5769			
139												
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158     8657     8932     9206     9481     9755     20 0029     20 0303     20 0577     20 0850     20 1124     27       159     20 1397     20 1670     20 1943     20 2216     20 2488     2761     3033     3305     3577     3848     27							4514			5346	5623	278
159   20 1397   20 1670   20 1943   20 2216   20 2488   2761   3033   3305   3577   3848   27		8657									20 1124	270   274
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172	5528 8046	5781 8297	6033 8548	6285 8799	6537 9049	6789 9299	7041	7292 9800	7544 24 0050	7795 24 0300	252
173 174	24 0549	24 0799	24 1048	24 1297		24 1795	9550 24 2044	24 2293	2541	2790	250 249
175	24 3038	24 3286	24 3534	24 3782	24 4030	24 4277	24 4525	24 4772	24 5019	24 5266	248
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177 178	7973 25 0420	25 0664	25 0908	8709 25 1151	8954 25 1395	25 1638	9443 25 1881	25 21 25	9932 25 2368	25 0176 2610	245 243
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183	2451	2688	2925	3162	3399	3636	3873	4109	4346	4582	237
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187	27 1842	27 2074	27 2306	2538	2770	3001	3233	3464	3696	3927	232
188	4158 6462	4389	4620	4850	5081	5311	5542	5772 8067	6002	6232	230
189	27 8754	6692 27 8982	6921 27 9211	7151 27 9439	7380 27 9667	7609 27 9895	7838 28 01 23	28 0351	8296 28 0578	8525 28 0806	229
191	28 1033	28 1261	28 1488	28 1715	28 1942	28 2169	2396	2622	2849	3075	227
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200	30 1030	30 1 247	30 1464	30 1681			30 2331	30 2547	30 2764	30 2980	217
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204	9630	9843		31 0268		31 0693	31 0906	31 1118	31 1330	31 1542	212
205 206	31 1754 3867	31 1966 4078	31 2177 4289	31 2389 4499	31 2600 4710	31 2812 4920	31 3023 5130	31 3234 5340	31 3445 5551	31 3656 57 <b>6</b> 0	211
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208	8063 32 0146	8272	8481 32 0562	8689 32 0769	8898	9106 32 I 184	9314	9522 32 1598	9730 32 1805	9938 32 2012	208 207
210	32 2219	32 0354 32 2426	32 2633	32 2839		32 3252	-	32 3665	32 3871	32 4077	206
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22I 222	4392 6353	4589 6549	4785 6744	4981 6939	5178 7135	5374 7339	5570 7525	5766 7720	5962 7915	6157 8110	196
223	8305	8500	8694	8889	9083	9278	9472	9666	9860	35 0054	194
224	35 0248	35 0442	35 0636	35 0829	35 1023	35 1216	35 1410	35 1603	35 1796	1989	193
225	35 2183	35 2375	35 2568	35 2761	35 2954	35 3147	35 3339	35 3532	35 3724	35 3916	193
226	4108 6026	4301 6217	4493 6408	4685 6599	4876 6790	5068 6981	5260	5452	5643	5834	192
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230	36 1728	36 1917	36 2105	36 2294	36 2482	36 2671	36 2859	36 3048	36 3236	36 3424	188
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24 I	2017	2197	2377	2557	2737	2917	3097	3277	3456	3636	180
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284 285	3318	3471	3624	3777	3930	4082	4235	4387	4540	4692	153
286	45 4845 6366	45 4997 6518	45 5150 6670	45 5302 6821	45 5454 6973	45 5606 7125	45 5758 7276	45 5910 7428	45 6062 7579	45 6214 7731	152 152
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332	52 1138	52 1269	1400	1530	1661	1792	1922	2053	2183	2314	131
333 334	2444 3746	2575 3876	2705 4006	2835 4136	2966 4266	3096 4396	3226 4526	3356 4656	3486 4785	3616 4915	- 1
335			52 5304								130
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358	3883	4004	4126	4247	4368	4489	4610	4731	4852 6061	4973 6182	
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411 412	3842 4897	3947 5003	4053 5108	4159 5213	4264 5319	4370 54 <b>2</b> 4	4475 5529	4581 5634	5740	4792 5845	105
413	5950	6055	6160	6265	6370	6476	6581	6686	6790	6895	105
414	7000	7105	7210	7315	7420	7525	<b>7</b> 629	7734	7839	7943	105
415	61 8048	61 8153	61 8257	61 8362	61 8466	61 8571	61 8676	61 8780	61 8884	61 8989	105
416	9093	9198	9302	9406	9511	9615	9719	9824	9928	62 0032	104
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420	62 3249	62 3353	62 3456	62 3559	62 3663	62 3766	62 3869		62 4076	62 4179	103
421	4282	4385	4488	4591	4695	4798	4901	5004	5107	5210	103
422	5312	5415	5518	5621	5724	5827	5929	6032	6135	6238	103
423	6340	6443	6546	6648	6751	6853	6956	7058	7161	7263	103
424	7366	7468	7571	7673	7775	7878	7980	8082	8185	8287	102
425 426	62 8389	62 8491	62 8593 9613	62 8695	62 8797 9817	62 8900	62 9002	62 9104 63 0123	62 9206 63 0224	62 9308 63 0326	102
427	63 0428	9512 63 0530	63 0631	9715 63 0733	63 0835	9919 63 0936	1038	1139	1241	1342	102
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43 I	4477	4578	4679	4779	4880 5886	4981	5081	5182	5283	5383	101
432	5484 6488	5584 6588	5685 6688	5785 6789	6889	5986 6989	6087 7089	6187	6287 7290	6388 7390	100
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437	64 0481	64 0581	64 0680	64 0779	64 0879	64 0978	1077	1177	1276	1375	99
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441	4439	4537	4636	4734	4832	4931	5029	5127	5226	5324	98
442	5422	5521	5619	5717	5815	5913	6011	6110	6208	6306	98
443	6404	6502	6600	6698	6796	6894	6992	7089	7187	7285	98
444	7383	7481	7579	7676	7774	7872	7969	8067	8165	8262	98
445	64 8360	64 8458	64 8555	64 8653 9627	64 8750	64 8848 9821	64 8945	64 9043 65 0016	64 9140		97
446	9335 65 0308	65 0405	9530 65 0502		9724 65 0696	65 0793	9919 65 0890	05 0010	1084	1181	97 97
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449	2246	2343	2440	2536	2633	2730	2826	2923	3019	3116	97
450			65 3405	65 3502	65 3598	65 3695		65 3888	65 3984		96
451	4177	4273	4369	4465	4562	4658	4754	4850	4946	5042	96
452 453	5138 6098	5235 6194	5331 6290	5427 6386	5523 6482	5619 6577	5715 6673	5810 6769	5906 6864	6002 6960	96 96
454	7056	7152	7247	7343	7438	7534	7629	7725	7820	7916	96
455			65 8202			65 8488			65 8774		95
456	8965	9060	9155	9250	9346	9441	9536	9631	9726	9821	95
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461 462	3701 4642	3795 4736	3889 4830	3983 4924	4078 5018	4172 5112	4266 5206	4360 5299	4454 5393	4548 5487	94 94
463	5581	5675	5769	5862	5956	6050	6143	6237	6331	6424	94
464	6518	6612	6705	6799	6892	6986	7079	7173	7266	7360	94
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467	9317	8479 9410	8572 9503	9596	9689	9782	9875	9967	9131 67 0060	92 <b>24</b> 67 0153	93 93
468	67 0246	67 0339	67 0431	67 0524	67 0617	67 0710	67 0802	67 0895	0988	1080	93
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470 471	67 2098 3021	67 2190 3113	67 2283 3205	67 2375 <b>3297</b>	67 2467 3390	67 2560 3482	67 <b>2</b> 652 3574	67 2744 3666	67 2836 3758	67 2929 3850	92 92
472	3942	4034	4126	4218	4310	4402	4494	4586	4677	4769	92
473	4861	4953	5045	5137	5228	5320	5412	5503	5595	5687	92
474	5778	5870	5962	6053	6145	6236	6328	6419	6511	6602	92
475 476	67 6694 7607	67 6785 7698	67 6876 7789	67 6968 7881	67 7059 7972	67 7151 8063	67 7242 8154	67 7333 8 <b>24</b> 5	67 7424 8336	67 7516 8427	91 91
477	8518	8609	8700	8791	8882	8973	9064	9155	9246	9337	91
478	9428	9519	9610	9700	9791	9882	9973	68 0063	68 01 54	68 0245	91
479	68 0336	68 0426	68 0517	68 0607	68 0698	68 0789	68 0879	69 - 9 - 4	1060	1151	91
480 481	68 1241 2145	68 1332 2235	68 1422 2326	68 1513 2416	68 1603 2506	68 1693 2596	68 1784 2686	68 1874 2777	68 1964 2867	68 2055 2957	90
482	3047	3137	3227	3317	3407	3497	3587	3677	3767	3857	96
483	3947	4037	4127	4217	4307	4396	4486	4576	4666	4756	90
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485 486	68 5742 6636	68 5831 6726	68 5921 6815	68 6010 6904	68 6100 6994	68 6189 7083	7172	68 6368 7261	68 6458 7351	68 6547 7440	89 89
487	7529	7618	7707	7796	7886	7975	8064	8153	8242	8331	89
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489	9309 69 0196	9398	9486	9575	9664	9753	9841	9930 69 <b>08</b> 16	69 0019	69 0107	89 80
490 491	1081	69 0285 1170	69 0373 1258	69 0462 I 347		69 0639 1524	69 0728 1612	1700	69 0905 1789	69 0993 1877	89 88
492	1965	2053	2142	2230	1435 2318	2406	2494	2583	2671	2759	88
493	2847	2935	3023	3111	3199	3287	3375	3463	3551	3639	88
494	3727 69 4605	3815 69 4693	3903 69 4781	3991 69 4868	4078	4166	4254	4342 69 5219	4430	4517	88 88
495 496	5482	5569	5657	5744	69 4956 5832	69 5044 5919	69 5131	6094	69 5307 6182	69 5394 6269	87
497	6356	6444	6531	6618	6706	6793	688o	6968	7055	7142	87
498	7229 8101	7317 8188	7404	7491 8262	7578	7665	7752 8622	7839	7926	8014 8883	87
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502	70 0704	70 0790	0877	0963	1050	1136	1222	1309	1395	1482	86
503 504	1568 2431	1654 2517	1741 2603	1827 2689	1913 2775	1999 2861	2086 2947	2172 3033	2258 3119	2344 3205	86 86
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511	8421	8506	8591	8676	8761	8846	8931	9015	9100	9185	85
512	9270	9355	9440	9524			9779			71 0033	85
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515	71 1807	71 1892		71 2060		71 2229		1	71 2481		84
516	2650	2734	2818	2902	2986	3070	3154	3238	3323	3407	84
517 518	3491 4330	3575 4414	3659 4497		3826 4665	3910 4749	3994 4833	4078 4916	4162 5000	4246 5084	84 84
519	5167	5251	5335	5418	5502	5586		5753	5836	5920	84
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521	6838	6921	7004 7837	7088	7171 8003	.7254 8086	7338 8169	7421 8253	7504 8336	7587 8419	83 83
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524	9331	9414	9497	9580	9663	9745	9828	9911	9994	72 0077	83
525	72 01 59	72 0242	72 0325	72 0407	72 0490	72 0573	72 0655	72 0738	72 0821	72 0903	83
526	0986 1811	1068 1893	1151	1233 2058	1316 2140	1398	1481 2305	1563 2387	1646 2469	1728 2552	82 82
527 528	2634	2716	2798	2881	2963	3045	3127	3209	3291	3374	82
529	3456	3538	3620	3702	3784	3866	3948	4030	4112	4194	82
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531 532	5095 5912	5176 5993	5258 6075	5340 6156	5422 6238	5503 63 <b>2</b> 0	5585 6401	5667 6483	5748 6564	5830 6646	82
533	6727	6809	6890	6972	7053	7134	7216	7297	7379	7460	81
534	7541	7623	7704	7785	7866	7948	8029	8110	8191	8273	81
535	72 8354	72 8435 9246	72 8516	72 8597 9408	72 8678 9489	72 8759	72 8841 9651	72 8922	72 9003 9813	72 9084 9893	81 81
536 537	9165 9974	73 0055	9327 73 01 36	73 0217		9570 73 0378	73 0459	9732 73 0540	73 0621	73 0702	1 - 1
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539	1589	1669	1750	1830	1911	1991	2072	2152	2233	2313	81
540 541	73 2394 3197	73 2474 3278	73 2555 3358	73 <b>2</b> 635 3438	73 2715 3518	73 2796 3598	73 2876 3679	73 2956 3759	73 3037 3839	73 3117	80 80
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544	5599	5679	5759 73 6556	5838 73 6635	5918 73 6715	5998 73 6795	6078 73 6874	6157 73 6954	6237	6317	80
545 546	73 6397 7193	73 6476 7272		7431			7670		73 7034 7829	7908	79
547	7987	8067	7352 8146	7431 8225	7511 8305	7590 8384	8463	7749 8543	8622	7908 8701	79
548	8781	8860 9651	8939	9810	9097 9889	9177 9968	9256 74 0047	9335 74 01 26	9414 74 0205	9493 74 0284	79 79
549 550	9572 74 0363	74 0442	9731 74 0521	74 0600	74 <b>0</b> 678	74 0757	74 0836		74 0994	74 1073	79
55I	1152	1230	1 309	1 388	1467	1546	1624	1703	1782	1860	79
552	1939	2018	2096 2882	2175	2254	2332	2411	2489	2568	2647	79 78
553 554	2725 3510	2804 3588	3667	2961 3745	3039 3823	3118 3902	3196 3980	3275 4058	3353 4136	3431 4215	78
555	74 4293	74 4371	74 4449	74 4528		74 4684	74 4762			74 4997	78
556	5075	5153	5231	5309	5387	5465	5543	5621	5699	5777	78
557 558	5855 6634	5933 6712	6011 6790	6089 6868	6167 6945	6245 7023	6323 7101	6401 7179	6479 7256	6556 7334	78 78
559	7412	7489	7567	7645	7722	7800	7878	7955	8033	8110	78
560	74 8188	74 8266	74 8343	74 8421	74 8498	74 8576	74 8653	74 8731	74 8808	74 8885	77
561	8963	9040	9118 9891	9195 9968	9272	9350	9427	9504	9582	9659	77
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565	75 2048	75 2125	75 2202	75 2279	75 2356	75 <b>24</b> 33	75 2509	75 2586	75 2663	75 2740	77
566 567	2816 3583	2893 3660	2970 3736	3047 3813	3123 3889	3200 3966	3277 4042	3353 4119	3430 4195	3506 4272	77
568	4348	4425	4501	4578	4654	4730	4807	4883	4960	5036	76
569	5112	5189	5265	5341	5417	5494	5570	5646	5722	5799	76
570	75 5 <sup>8</sup> 75 6636	75 5951	75 6027 6788	75 6103 6864	75 6180	75 6256		75 6408 7168	75 6484 7244	75 6560	76 76
571 572	7396	6712 7472	7548	7624	6940 7700	7016 7775	7092 7851	7027	8003	7320 8079	76
573	8155	8230	7548 8306	8382	8458	8533	8609	8685	8761	8836	76
574	8912	8988	9063	9139	9214	9290	9366	9441	9517	9592	76
575 576	75 9668 76 0422	75 9743 76 0498		75 9894 76 0649		76 0045 0799	76 0121 0875	76 0196 0950	76 0272 1025	76 0347 1 1 0 1	75 75
577	1176	1251	1326	1402	1477	1552	1627	1702	1778	1853	75
578	1928 2679	2003	2078 2829	2153 2904	2228 2978	2303	2378 3128	2453	2529 3278	2604 3353	75
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581	4176	4251	4326	4400	4475	4550	4624	4699	4774	4848	75
582	4923	4998	5072	5147	5221	5296	5370	5445	5520	5594	75
583 584	5669	5743 6487	5818 6562	5892 6636	5966 6710	6041	6850	6190	6264	6338 7082	74
	6413						6859 76 7601	6933 76 7675	7007		74
585 586	76 7156 7898	76 7230 7972	76 7304 8046	76 7379 8120	76 7453 8194	76 7527 8268	8342	8416	76 7749 8490	76 7823 8564	74
587	8638	8712	8786	8860	8934	9008	9082	9156	9230	9303	74 74
588	9377	9451	9525	9599	9673	9746	9820	9894	9968	77 0042	74
589	77 0115	77 0189	77 0263	77 0336	77 0410	77 0484	77 0557	77 0631	77 0705	0778	74
590	77 0852	77 0926	77 0999	77 1073	77 1146	77 1220	77 1293	77 1367	77 1440	77 1514	74
591	1587	1661	1734	1808	1881	1955 2688	2028	2102	2175	2248	73
592	2322	2395	2468	2542	2615		2762	2835	2908	2981	73
593	3055 3786	3128 3860	3201	3274 4006	. 3348	3421	3494	3567	3640	3713	73
594			3933	•	4079	4152	4225	4298	4371	4444	73
595 596	77 4517 5246	77 4590 5319	77 4663	77 4736 5465	77 4809 5538	77 4882 5610	77 4955 5683	77 5028 5756	77 5100 5829	77 5173 5902	73
597	5974	6047	5392 61 <b>2</b> 0	6193	6265	6338	6411	6483	6556	6629	73
598	6701	6774	6846	6919	6992	7064	7137	7209	7282	7354	73
599	7427	7499	7572	7644	7717	7789	7862	7934	8006	8079	72
600	77 8151	77 8224	77 8296	77 8368	77 8441	77 8513	77 8585	77 8658	77 8730	77 8802	72
601	8874	8947	9019	9091	9163	9236	9308	9380	9452	9524	72
602	9596	9669	9741	9813	9885	9957	78 0029	78 0101	78 0173	78 0245	72
603	78 0317	78 0389	78 0461	78 0533	78 0605		0749	0821	0893	0965	72
604	1037	1109	1181	1253	1324	1396	1468	1540	1612	1684	72
605 606	78 1755	78 1827	78 1899 2616	78 1971 2688	78 2042	78 21 14 2831	78 2186 2902	78 2258 2974	78 2329	78 2401 3117	72
607	2473 3189	2544 3260	3332	3403	<b>27</b> 59 3475	3546	3618	3689	3046 3761	3832	72 71
608	3904	3975	4046	4118	4189	4261	4332	4403		4546	71
609	4617	4689	4760	4831	4902	4974	5045	5116	5187	5259	71
610	78 5330	78 5401	78 5472	78 5543	78 5615	78 5686	78 5757	78 5828	78 5899	78 5970	71
біі	6041	6112	6183	6254	6325	6396	6467	6538	6609	6680	71
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613	7460 8168	7531	7602	7673	7744	7815	7885	7956	8027	8098	71
614		8239	8310	8381	8451	8522	8593	8663	8734	8804	7I
615 616	78 8875 9581	78 8946 9651	78 9016 9722	78 9087 9792	78 9157 9863	78 9228 9933	78 9299   79 0004		78 9440 79 0144	78 9510 79 021 5	71 70
617	79 0285	79 0356	79 0426	79 0496	79 0567	79 0637	0707	0778	0848	0918	70
618	0988	1059	1129	1199	1269	1340	1410	1480	1550	1620	70
619	1691	1761	1831	1901	1971	2041	2111	2181	2252	2322	70
620	79 2392	79 2462	79 2532	79 2602	79 2672	79 2742	79 2812	79 2882	79 2952	79 3022	70
621	3092	3162	3231	3301	3371	3441	3511	3581	3651	3721	70
622	3790	3860	3930	4000	4070	4139	4209	4279	4349	4418	70
623 624	4488 5185	4558 5254	4627	4697	4767 5463	4836 5532	4906 5602	4976 5672	5045	5115 5811	70 70
625	79 5880	79 5949	5324 79 6019	5393 79 6088			79 6297	79 6366	5741	79 6505	69
626	6574	6644	6713	6782	79 6158 6852	79 6227 6921	6990	79 0300 7060	<b>79 643</b> 6 7129	7198	69
627	7268	7337	7406	7475	7545	7614	7683	7752	7821	7890	69
628	7960	8029	8098	8167	8236	8305	8374	8443	8513	8582	69
629	8651	8720	8789	8858	8927	8996	9065	9134	9203	9272	69
630	79 9341	79 9409	79 9478	79 9547	79 9616	79 9685	79 9754	79 9823	79 9892		69
631	80 0029	80 0098	80 0167	80 0236	80 0305	80 0373	80 0442	80 0511	80 0580		69
632	0717 1404	0786	0854	0923	0992	1061	1129	1198 1884	1266 1952	1335 2021	69 69
633 634	2089	1472 2158	1541 2226	1609 2295	1678 2363	1747 2432	1815 2500	2568	2637	2705	68
635	80 2774	80 2842		80 2979	80 3047		80 3184	- 1		80 3389	68
636	3457	3525	3594	3662	3730	3798	3867	3935	4003	4071	68
637	4139	4208	4276	4344	4412	4480	4548	4616	4685	4753	68
638	4821	4889	4957	5025	5093	5161	5229	5297	5365	5433	68
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640	80 6180	80 6248	80 6316	80 6384	80 6451	80 6519	80 6587	80 6655	80 6723	80 6790	68
64 I	6858	6926	6994	7061	7129	7197	7264	7332 8008	7400	7467	68
642	7535 8211	7603	7670	7738	7806 8481	7873	7941 8616	8684	8076	8143 8818	68
643 644	8886	8279 8953	8346 9021	8414 9088	9156	8549 9223	9290	9358	8751 9425	9492	67
645		80 9627	80 9694	80 9762	80 9829	80 9896		81 0031	81 0098	81 0165	67
646	81 0233	81 0300	81 0367	81 0434	81 0501	81 0569	81.0636	0703	0770	0837	67
647	0904	0971	1039	1106	1173	1240	1307	1374	1441	1508	67
648	1575	1642	1709	1776	1843	1910	1977	2044	2111	2178	67
649	2245	2312	2379	2445	2512	2579	2646	2713	2780	2847	67
650	81 2913 3581	81 2980 3648	81 3047 3714	81 3114 3781	81 3181 · 3848	81 3247 3914	3981	81 3381 4048	81 3448 4114	81 3514 4181	67
651 652	4248	4314	4381	4447	4514	4581	4647	4714	4780	4847	67
653	4913	4980	5046	5113	5179	5246	5312	5378	5445	5511	66
654	5578	5644	5711	5777	5843	5910	5976	6042	6109	6175	66
655	81 6241	81 6308	81 6374	81 6440	81 6506	81 6573	81 6639	81 6705	81 6771	81 6838	66
656	6904	6970	7036	7102	7169	7235	7301 7962	7367 8028	7433	7499 8160	66
657	7565 8226	7631 8292	7698 8358	7764 8424	7830 8490	7896 8556	8622	8688	8094 8754	8820	66
658 659	8885	8951	9017	9083	9149	9215	9281	9346	9412	9478	66
660	81 9544	81 9610	1			81 9873		82 0004		82 01 36	66
66 I	82 0201	82 0267	82 0333	82 0399	82 0464	82 05 30	82 0595	0661	0727	0792	66
662	0858	0924	0989	1055	1120	1186	1251	1317	1382	1448	66
663 664	1514 2168	1579 2233	1645 2299	1710 2364	1775 2430	1841 2495	1906 2560	1972 2626	2037 2691	2103 2756	65 65
	82 2822	82 2887		82 3018				82 3279		82 3409	65
665 666	3474	3539	3605	3670	3735	3800	3865	3930	3996	4061	65
667	4126	4191	4256	4321	3735 4386	4451	4516	4581	4646	4711	65
668	4776	4841	4906	4971	50,36	5101	5166	5231	5296	5361	65
669	5426	5491	5556	5621	5686	5751	5815	5880	5945	6010	65
670	82 6075	82 6140	82 6204 6852		82 6334	82 6399		82 6528		82 6658	65
671 672	6723 7369	6787 7434	7499	6917 7563	6981 7628	7046 7692	7111	7175 7821	7240 7886	7305 7951	65
673	8015	8080	8144	8200	8273	8338	8402	8467	8531	8595	64
674	866o	8724	8789	8853	8918	8982	9046	9111	9175	9239	64
675	82 9304	82 9368	82 9432	82 9497		82 9625	82 9690	82 9754		82 9882	64
676	9947	83 0011	83 0075	83 01 39	83 0204 0845			83 0396		83 0525	64 64
677 678	83 0589 1230	0653 1294	0717	0781 1422	1486	0909 1550	0973 1614	1037	1102 1742	1806	64
679	1870	1934	1998	2062	2126	2189	2253	2317	2381	2445	64
680		83 2573		83 2700	83 2764	83 2828		83 2956	83 3020	83 3083	64
681	3147	3211	3275	3338	3402	3466	3530	3593	3657	3721	64
682	3784	3848	3912	3975	4039	4103	4166	4230	4294	4357	64
683 684	442I 5056	4484 5120	4548 5183	4611 5247	4675 5310	4739 5373	4802 5437	4866 5500	4929 5564	4993 5627	64
685	83 5691	83 5754		83 5881		82 6007		83 6134		83 6261	63
686	6324	6387	6451	6514	6577	6641	6704	6767	6830	6894	63
687	6957 7588	7020	7083	7146	7210	7273	7336	7399 8030	7462 8093	7525 8156	63
688	7588	7652	7715	7778	7841	7904	7967				63
689	8219	8282	8345	8408	8471	8534	8597	8660	8723	8786	63
690 691	9478	83 8912 9541	83 8975 9604	83 9038 9667	83 9101 9729		9855	9918	03 9352 0081	84 0043	63 63
692	84 0106	84 0169	84 0232	84 0294	84 0357	84 0420	84 0482	84 0545	84 0608	0671	63
693	0733	0796	0859	0921	0984	1046	1109	1172	1234	1297	63
694	1359	1422	1485	1547	1610	1672	1735	1797	1860	1922	63
695	84 1985	84 2047	84 21 10	84 2172	84 2235	84 2297	84 2360	84 2422	84 2484	84 2547	62 62
696 697	2609 3233	2672 3 <b>2</b> 95	2734 3357	2796 3420	2859 3482	2921 3544	2983 3606	3046 3669	3108 3731	3170 3793	62
698	3855	3918	3980	4042	4104	4166	4229	4291	4353	4415	62
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701	5718	5780	5842 6461	5904 6523	5966 6585	6028 6646	6090 6708	6151	6213 6832	6275 6894	62 62
702	6337 6955	6399 7017	7079	7141	7202	7264	7326	7388	7449	7511	62
704	7573	7634	7696	7758	7819	7881	7943	8004	8066	8128	62
705	84 8189	84 8251		84 8374		84 8497		84 8620	84 8682	84 8743	62
706	8805	8866 948 i	8928	8989 9604	9051 9665	9112	9174 9788	9235 9849	9297	9358	61 61
707 708	9419 85 0033	85 0095	9542 85 0156		85 0279	9726 85 0340		85 0462	9911 85 0524	9972 85 0585	61 .
709	0646	0707	0769	0830	0891	0952	1014	1075	1136	1197	61
710	85 1258	85 1320	85 1381	85 1442	85 1503			85 1686		85 1809	61
711	1870 2480	1931	1992 2602	2053 2663	2114	2175 2785	2236 2846	2297 2907	2358 2968	2419 3029	61 61
712	3090	2541 3150	3211	3272	2724 3333	3394	3455	3516	3577	3637	61
714	3698	3759	3820	3881	3941	4002	4063	4124	4185	4245	61
715	85 4306	85 4367		85 4488	85 4549	85 4610			85 4792		6 <b>r</b>
716	4913	4974	5034 5640	5095	5156 5761	5216 5822	5277 5882	5337	5398 6003	5459 6064	61 61
717	5519 6124	5580 6185	6245	5701 6306	6366	6427	6487	5943 6548	6608	6668	60
719	6729	6789	6850	6910	6970	7031	7091	7152	7212	7272	60
720	85 7332	85 7393	85 7453	85 7513 8116	85 7574 8176	85 7634	85 7694	859755	85 7815	85 7875	60
721	7935	7995	8056	8116 8718	8176	8236 8838	8297 8898	357	8417 9018	8477 9078	60 60
722	8537 9138	8597 9198	8657 9 <b>25</b> 8	9318	8778 9379	9439	9499	9559	9619	9679	60
724	9739	9799	9859	9918		86 0038	86 0098	86 óĭ 58	86 0218	86 0278	60
725	86 0338	86 0398	86 0458	86 05 18		86 0637	86 0697	86 0757	86 0817	86 0877	60
726	0937	0996	1056	1116	1176	1236 1833	1295 1893	1355	1415 2012	1475	60 60
727	1534 2131	1594 2191	1654 2251	1714 2310	1773 2370	2430	2489	1952 2549	2608	2072 2668	60
729	2728	2787	2847	<b>290</b> 6	2966	3025	3085	3144	3204	<b>32</b> 63	60
730	86 3323	86 3382		86 3501	86 3561	86 3620	86 3680	86 3739	86 3799	86 3858	59
731	3917	3977	4036	4096	4155	4214	4274	4333	4392	4452	59
732	4511 5104	4570 5163	4630 5222	4689 5282	4748 5341	4808 5400	4867 5459	4926 5519	4985 5578	5045 5637	59 59
734	5696	5755	5814	5874	5933	5992	6051	6110	6169	6228	59
735	86 6287		86 6405		86 6524	86 6583		86 6701	86 6760	86 6819	59
736	6878	6937	6996		7114	7173	7232 7821	7291 7880	7350	7409 7998	59
737	7467 8056	7526 8115	7585 8174	7644 8233	7703 8292	7762 8350	8409	8468	7939 8527	7998 8586	59 59
739	8644	8703	8762	8821		8938	8997	9056	9114	9173	59
740	86 9232	86 9290		86 9408			86 9584	86 9642	86 9701	86 9760	59
741	9818 87 0404	9877 87 0462	9935 87 0521	9994 87 0579	87 0053 0638	87 0111 0696		87 0228 081 3	87 0287 0872		59 58
742 743	0989	1047	1106	1164	1223	1281	0755 1339	1398	1456	0930 1515	58
744	1573	1631	.1690	1748	1806	1865	1923	1981	2040	2098	58
745	87 2156	87 2215	87 2273	87 2331	87 2389		87 2506		87 2622	87 2681	58
746 747	2739 3321	2797 3379	2855 3437	2913 3495	2972 3553	3030 3611	3088 3669	3146 3727	3204 3785	3262 3844	58 58
748	3902	3960	4018	4076	4134	4192	4250	4308	4366	4424	58
749	4482	4540	4598	4656	4714	4772	4830	4888	4945	5003	58
750	87 5061	87 5119	87 5177	87 5235	87 5293	87 5351	87 5409	87 5466	87 5524	87 5582	58
751 752	5640 6218	5698 6276	5756 6333	5813 6391	5871 6449	5929 6507	5987 6564	6045 6622	6102 6680	6160 6737	58 58
753	6795	6853	6910	6968	7026	7083	7141	7199	7256	7314	58
754	7371	7429	7487	7544	7602	7659	7717	7774	7832	7889	58
755	87 7947	87 8004		87 8119			87 8292			87 8464	57
75 <sup>6</sup> 757	8522 9096	8579 9153	8637 9211	8694 9268	8752 9325	8809 9383	8866 9440	8924 9497	8981 9555	9039 9612	57 57
758	9669	9726	9784	9841	9898	9956	88 0013	88 0070	88 0127	88 0185	57
759	88 0242	88 0299	88 0356	88 0413	88 0471	88 0528	0585	0642	0699	0756	57
N.	0	1	2	3	4	5	6	7	8	9	D.

N.	0	1	2	3	4	5	6	7	8	9	D.
760	88 0814	88 0871	88 0928	88 0985	88 1042	88 1099	88 1156	88 1213	88 1271	88 1328	57
761	1385	1442	1499	1556	1613	1670	1727	1784	1841	1898	57
762	1955	2012	2069	2126	2183	2240	2297	2354	2411	2468	57
763	2525	2581	2638	2695	2752	2809	2866	2923	2980	3037	57
764	3093	3150	3207	3264	3321	33,77	3434	3491	3548	3605	57
765	88 3661	88 3718	88 3775	88 3832	88 3888	88 3945	88 4002	4625	88 4115 4682	88 4172	57
766 767	4229 4795	4285 4852	4342 4909	4399 4965	4455 5022	4512 5078	4569 5135	5192	5248	4739 5305	57 57
768	5361	5418	5474	5531	5587	5644	5700	5757	5813	5870	57
769	5926	5983	6039	6096	6152	6209	6265	6321	6378	6434	56
770	88 6491	88 6547	88 6604	88 666o	88 6716	88 6773	88 6829	88 6885	88 6942	88 6998	56
771	7054	7111	7167	7223	728Q	7336	7392	7449	7505	7561	56
772	7617	7674	7730 8292	7786 8348	7842	7898	7955	8011	8067	8123	56
773	8179	8236	8292	8348	8404	8460	8516	8573	8629	8685	56
774	8741	8797	8853	8909	8965	9021	9077	9134	9190	9246	56
775	88 9302	88 9358	88 9414	88 9470	88 9526	88 9582	88 9638	88 9694	88 9750	88 9806	56
776	9862	9918	9974	89 0030		89 0141	89 0197	89 0253	89 0309	89 0365	56
777	89 0421	89 0477	89 0533 1091	0589	0645 1203	0700	0756	0812 1370	0868 1426	0924 1482	56 56
778 779	0980 1537	1035	1649	1147 1705	1760	1259 1816	1872	1928	1983	2039	56
780	89 2095	89 2150	89 2206	89 2262	89 2317	89 2373	89 2429	89 2484	89 2540	89 2595	56
781	2651	2707	2762	2818	2873	2929	2985	3040	3096	3151	56
782	3207	3262	3318	3373	3429	3484	3540	3595	3651	3706	56
783	3762	3817	3873	3928	3984	4039	4094	4150	4205	4261	55
784	4316	4371	4427	4482	4538	4593	4648	4704	4759	4814	55
785	89 4870	89 4925	89 4980	89 5036	89 5091	89 5146	89 5201	89 5257	89 5312	89 5367	55
786	5423	5478	5533	5588	5644	5699	5754	5809	5864	5920	55
787	5975	6030	6085	6140	6195	6251	6306	6361	6416	6471	55
788	6526	6581	6636	6692	6747	6802	6857	6912	6967	7022	55
789	7077	7132	7187	7242	7297	7352	7407	7462	7517	7572	55
790	89 7627 8176	89 7682 8231	89 7737 8286	89 7792 8341	89 7847 8396	89 7902 8451	89 7957 8506	89 8012 8561	89`8067 8615	89 8122 8670	55
791 792	8725	8780	8835	8890	8944	8999	9054	9109	9164	9218	55
793	9273	9328	9383	9437	9492	9547	9602	9656	9711	9766	55
794	9821	9875	9930	9985	90 00 39	90 0094	90 0149	90 0203	90 0258	90 0312	55
795	90 0367	90 0422	90 0476	90 0531	90 0586	90 0640	90 0695	90 0749	90 0804	90 0859	55
796	0913	<b>o</b> 968	1022	1077	1131	1186	1240	1295	1349	1404	55
797	1458	1513	1567	1622	1676	1731	1785	1840	1894	1948	54
798	2003	2057 2601	2112 2655	2166	2221	2275 2818	2329	2384	2438	2492	54
799	2547			2710	2764	_	2873	2927	2981	3036	54
800 801	90 3090 3633	90 3144 3687	90 3199	90 3253	90 3307	90 3361	90 3416	90 3470 4012	90 3524 4066	90 3578	54
802	4174	4229	3741 4283	3795 4337	3849 4391	3904 4445	3958 4499	4553	4607	4120 4661	54
803	4716	4770	4824	4878	4932	4986	5040	5094	5148	5202	54
804	5256	5310	5364	5418	5472	5526	5580	5634	5688	5742	54
805	90 5796	90 5850	90 5904	90 5958	90 6012	90 6066	90 6119	90 6173	90 6227	90 6281	54
806	6335	6389	6443	6497	6551	6604	6658	6712	6766	6820	54
807	6874	6927	6981	7035	7089	7143	7196	7250	7304	7358	54
808	7411	7465	7519	7573 8110	7626	7680	7734	7787	7841	7895	54
809	7949	8002	8ŏ56	l .	8163	8217	8270	8324	8378	8431	54
810			90 8592		90 8699	90 8753	90 8807	90 8860	90 8914		54
811	9021 9556	9074 9610	9128 9663	9181 9716	9235 97 <b>7</b> 0	9289 9823	9342 9877	9396 9930	9449 9984	9503 91 0037	54
813		91 0144		91 0251		91 0358				0571	53
814	0624	0678	0731	0784	0838	0891	0944	0998	1051	1104	53
815	91 1158	91 1211	(	91 1317		91 1424		91 1530	91 1584	91 1637	53
816	1690	1743	1797	1850	1903	1956	2009	2063	2116	2169	
817	2222	2275	2328	2381	2435	2488	2541	2594	2647	2700	53
818	2753	2806	2859	2913	2966	3019	3072	3125	3178	3231	53
819	3284	3337	3390	3443	3496	3549	3602	3655	3708	3761	53
N.	0	1	2	<sub>2</sub> 3	4	5	∙6	7	8	9	D.

851         9930         9981         93 0322         93 0322         93 0332         93 0334         93 0134         93 0135         93 0236         93 0287         93 0287         93 0287         93 0287         93 0287         93 0287         93 0287         93 0287         93 0287         0643         0694         0745         0796         06         08         0694         0745         0796         08         08         08         1153         1204         1254         1305         18         18         18         1254         1305         18         18         1254         1305         18         17         1763         1814         18 </th <th>9</th> <th>D.</th>	9	D.
822         4872         4925         5508         5508         5611         5664         5716         5769         5241         5588         5518         5661         5766         5716         5769         5258         5611         5664         5716         5769         5588         6980         6980         6980         6980         7033         7085         7138         71190         7243         7295         7348         77170         7768         7820         7873         7897         7873         7710         7768         7820         7873         7873         7710         7768         78820         7873         7873         7873         7710         7768         78820         7873         7873         7873         7873         7873         7873         7873         7873         7873         7873         7883         3836         8860         8650         8659         8659         8782         8771         8860         8860         8659         9978         8810         8860         8821         8330         91948         91949         9967         9978         9810         9862         9914         9978         9810         99340         9934         99444         9924	7 91 4290	
824   5927   5483   5595   5558   6038   6038   6038   6138   6191   6243   6296   6		
Ray		53
825         91 6454         91 6507         91 6559         91 6612         91 6664         91 6777         91 6770         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 6822         91 738         7796         7830         7833         77968         7820         7833         7933         7933         7933         7933         7933         7933         7933         7933         7933         7934         8397         838         8393         8369         8991         99340         91 9330         91 9130         91 9235         91 9287         91 9340         91 9392         91 9392         91 9392         91 9392         91 9392         91 9392         92 0436		
826   6980   7033   7085   7138   7190   7243   7295   7348   7758   7873   7611   7663   7716   7768   8293   8245   8390   8555   8607   8659   8712   8764   8816   8869   8921   8831   9601   9653   9706   9758   9810   9862   9914   997   992   820   9		53
828         800         7558         7611         7663         7716         7768         7820         7873         8397         828         8300         8083         8135         8188         8240         8293         8345         8397         8891         8293         8345         8397         8891         8293         8345         8397         8891         8293         8345         8397         8886         8291         8816         8293         8345         8397         8886         8293         8345         8397         8886         8293         8345         8397         8886         8293         8345         8397         8886         8293         8345         8397         9862         9914         9967         9967         9978         9860         9862         9914         9967         9967         9986         9200         9986         9919         992         9248         9200         9200         9958         1010         116         1178         11270         11322         11374         11426         11478         1530         11426         1438         1248         221869         221848         22960         922184         22466         2218         22186         2218		
828         8030         8083          8135          8188          8240         8293          8345          8397          8397          8865          8867          8659          8764          8860          8869          8921          8869          8869          8921          8869          8869          8921          8869          8869          8921          8869          8869          8921          8869          8869          8921          8869          89610          9962          9914          9967          9202          9962          9914          9967          9204          9967          9204          9967          9204          9967          9204          9967          9204          9968          9914          9967          9204          9968          9914          9967          9204          9968          9914          9967          9204          9968          9914          9967          9204          9968          9204          9968          9914          9967          9204          9968          9204          99204          9968          9904          9906          9958          9904          9906          9958          9904          9906          9958          9920          9921          9921          9		
839         8555         8607         8659         8712         8764         8816         8869         8921         8831           830         91 938         91 9130         91 9183         91 9235         91 9287         9340         9324         99144         9967         92 08           833         9601         9653         9706         9758         9810         9862         9964         9967         9967         9967         9967         9968         9914         9967         9967         9967         9967         9862         9802         9332         9914         9967         99067         9967         99067         99067         99067         9907         99067         9907         9907         9907         9907         9907         9907         9907         9907         9907         9907         9907         9907         9907         9907         9907         9907		
830         91 9078         91 9130         91 9183         91 9235         91 9287         91 9340         99 9340         99 9914         9967         992 0288         92 0323         92 0348         92 1948         92 1		52
831         9601         9653         9706         9758         921032         920328         920332         920384         920366         920369	- 1	
832         92 0123         92 0176         92 0228         92 0280         92 0332         92 0368         92 0368         100 0         100 16           834         1166         1218         1270         1322         1374         1426         1478         1530         116           835         92 1686         2258         2310         2362         2414         2466         2518         2570         2689         2881         2933         2985         3307         3089         3037         3089         338         3399         3451         3503         3555         3607         3689         339         3451         3503         3555         3607         3689         339         3451         3503         3555         3607         3689         338         3484         3399         3451         3503         3555         3607         3689         369		52
834         1166         1218         1270         1322         1374         1426         1478         1530         1530         128         1530         128         1374         1426         1478         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         128         1530         1550         128         1530         1550         1550         128         1530         1550		
835         92 1686         92 1738         92 1790         92 1842         92 1894         92 1946         92 1998         92 2050         92 2350         2362         2414         2466         2518         2570         289         2881         2933         2985         3037         3089         318         3393         3762         3814         3865         3917         3969         4021         4072         4124         418         4124         418         480         92 4279         92 4331         92 4383         92 4434         92 4486         92 4589         92 4641         92 468         92 4589         92 4641         92 468         92 4589         92 4641         92 468         92 4589         92 4641         92 4641         92 4641         92 4641         92 4641         92 4641         92 4641         92 4589         92 4641         92 4641         92 4589         92 4641         92 4641         92 4589         92 4641         92 4641         92 4589         92 4641         92 4641         92 4589         92 4641         92 4641         92 4589         92 4641         92 4641         92 4589         92 4641         92 4589         92 4641         92 4641         92 4589         92 4641         92 4641         92 4641         92 4641 <th></th> <th></th>		
836         2206         2258         2310         2362         2414         2466         2518         2570         2688           837         2725         2777         2829         2881         2933         2985         3037         3089         31           838         3244         3296         3348         3399         3451         3503         3555         3607         3607           840         92 4279         92 4331         92 4383         92 4448         92 4458         92 4589         92 4641         92 4681           841         4796         4848         4899         4951         5003         5054         5106         5157         52           842         5312         5364         5415         5467         5518         5570         5621         5673         5157         52           843         5828         5879         5931         6497         6548         6600         6651         6702         67           847         7883         7935         7986         8037         8688         8140         8191         8242           848         8396         8447         8488         8969         9010		52
837         2725         2777         2829         2881         2933         3553         3037         3089         3183           839         3762         3814         3865         33917         3969         4021         4072         4124         4124           840         92 4279         92 4331         92 4383         4899         4951         5003         5054         5106         5157         528           842         5312         5364         5415         5467         5518         5570         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621         5673         575         5621 <t< th=""><th>2 92 2154</th><th></th></t<>	2 92 2154	
838         3244         3296         3348         3399         3451         3503         3555         3607         3648         4124	,	
839         3762         3814         3865         3917         3969         4021         4072         4124         41           840         92 4279         92 4331         92 4383         92 4436         92 4486         92 4538         92 4589         92 4641         92 46           841         4796         4848         4899         4951         5503         5516         5157         5166         5157         5167         5157         5166         5157         57         843         5828         5879         5931         5982         6034         6085         6137         6188         62         6702         67         848         6497         6548         6600         6651         6702         67         868         6600         6651         6702         67         868         6600         6651         6702         67         67         7677         7678         7730         7422         7473         7524         7576         7627         7678         7730         7422         7473         7524         7576         7627         7678         7733         7848         8498         8549         8601         8652         8703         873         8681         849<		
840         92 4279         92 4331         92 4383         4899         4951         5003         5054         5106         5157         525           842         5312         5364         5415         5467         5518         5570         5621         5673         573         5483         5828         5879         5931         6848         6600         6651         6702         672         772         772         772         772         7730         7730         7730         7730         7730         7730         7730         7730         7730         7730         7730         8734         8081         8140         8191         8242         82         82         82         801         8191         8242         82         82         82         82         82         82         82         82         82         82         82		
841         4796         4848         4899         4951         5003         5054         5106         5157         52           843         5828         5879         5931         5982         6034         6085         6137         6188         62           844         6342         6394         6445         6497         6548         6600         6651         6702         67           845         92 6857         92 6908         92 6959         92 7011         7576         7627         7678         7730         7422         7473         7524         7576         7627         7678         7730         7320         7883         7935         7986         8037         8088         8140         8191         8242         828         849         8601         8652         8703         8754         86         8652         8703         8754         86         93 <t< th=""><th>1 -</th><th>52</th></t<>	1 -	52
842         5312         5364         5415         5467         5518         5570         5621         5673         5788         5888         5879         5931         5982         6034         6085         6137         6188         628         6600         6651         6702         678         628         6600         6651         6702         678         6600         6651         6702         678         6600         6651         6702         672         678         6528         6600         6651         6702         672         672         7730         7722         7473         7524         7576         7627         7678         7730         7730         7722         7473         7524         7576         7627         7678         7730		52
843         5828         5879         5931         5982         6034         6685         6657         6672         672         628         6690         6651         66702         672         672         672         672         672         672         672         672         672         672         672         7730         7730         7742         77473         7524         7576         808         8140         8191         8242         82         82         808         808         8140         8191         8242         82         82         82         808         8140         8191         8242         82         82         82         82         808         8140         8191         8242         82         82         82         82         82         8703         8754         88         88         840         892         9970         92         952         972         92         9672         92         972         92         972         92         972         92         972         92         972         92         972         92         972         92         972         92         972         92         972         92         972         9	-	
845         92 6857         92 6908         92 6959         92 7011         92 7062         92 7114         92 7165         92 7216         92 726           846         7370         7422         7473         7524         7576         7627         7678         7730         77           848         8396         8447         8498         8549         8601         8652         8703         8754         88           849         8908         8959         9010         9061         9112         9163         9215         9266         93           851         9930         9981         93 0032         93 0032         93 0032         93 0033         93 0134         93 0185         93 0236         93 0287         93 0287           853         0949         1000         1051         1102         1153         1204         1254         1305         136           854         1458         1509         1560         1610         1661         1712         1763         1814         136           855         93 1966         93 2017         93 2068         2118         93 2169         93 2220         93 2271         93 2322         93 2272         2272         227	0 6291	51
846         7370         7422         7473         7524         7576         7627         7678         7730		51
848         8396         8447         8498         8549         9601         961         962         973         8754         88           850         92 9419         92 9470         92 9521         92 9572         92 9572         92 9674         92 9725         92 9776         92 978           851         9930         9981         93 0032	8 92 7319	
848         8396         8447         8498         8549         9601         961         962         973         8754         88           850         92 9419         92 9470         92 9521         92 9572         92 9572         92 9674         92 9725         92 9776         92 978           851         9930         9981         93 0032	7832	
849         8908         8959         9010         9061         9112         9183         9215         9266         9368         9381         929410         92 9470         92 9521         92 9572         92 9623         92 9674         92 9725         92 9776         92 98         93 0032         93 0134         93 0185         93 0236         93 0287         93 0288         93 2220         93 22271         93 2322 </th <th>3 8345 5 8857</th> <th>51 51</th>	3 8345 5 8857	51 51
850         92 9419         92 9470         92 9521         92 9572         92 9623         92 9674         92 9725         92 9776         92 988         93 0032         93 0032         93 0032         93 0033         93 0134         93 0185         93 0236         93 0287         93		51
851         9930         9981         93 0032         93 0083         93 0134         93 0185         93 0236         93 0287         93 2887         93 2220         93 2220         93 2227         93 2322         93 2322         93 2322         93 2322         93 2322         93 2322         93 2322         93 277         93 2853         3335	7 92 9879	51
852         93 0440         93 0491         0542         0592         0643         0694         0745         0796         08           853         0949         1000         1051         1102         1153         1204         1254         1305         13           854         1458         1509         1560         1610         1610         1611         1712         1763         1814         18           855         93 1966         93 2017         93 2068         93 2118         93 2169         93 2220         93 2271         93 2322         93 2322           857         2981         3031         3082         3133         3183         3234         3285         3335         3335         3335         3333         3333         3341         38           859         3993         4044         4094         4145         4195         4246         4296         4347         43           860         93 4498         93 4549         93 4599         93 4650         93 4751         93 4801         93 4852         93 495         93 4751         93 4801         93 4852         93 495         94 505         93 505         5558         5608         5658         5709 <th></th> <th>51</th>		51
854         1458         1509         1560         1610         1661         1712         1763         1814         18           855         93 1966         93 2017         93 2068         93 2118         93 2169         93 2220         93 2271         93 2322         93 2322         93 2322         93 2322         93 2322         93 2322         93 232         93 244         93 244         4094         4145         4195         4246         4296         4347         43         93 245         93 4549         93 4599         93 4650         93 4751		51
855         93 1966         93 2017         93 2068         93 2118         93 2169         93 2220         93 2271         93 2322         93 2322         93 2220         93 2271         93 2322         93	6 1407	51
856         2474         2524         2575         2626         2677         2727         2778         2829         2889         2889         2889         2889         2889         3881         3331         3333         3335         3341         3441         426         4296         4347         434         4347         43		51
857         2981         3031         3082         3133         3183         3234         3285         3335         3335         3335         3690         3740         3791         3841         38         38         3841         38         3841         38         3841         38         38         3841         38 <th>2 93 2423</th> <th></th>	2 93 2423	
858         3487         3538         3589         3639         3690         3740         3791         3841         3881         3881         3881         3893         3690         3740         3791         3841         3841         3881         3893         3893         4044         4094         4145         4195         4246         4296         4347         4381		51
859         3993         4044         4094         4145         4195         4246         4296         4347         4367         43680         93 4599         93 4599         93 4599         93 4599         93 4590         93 4751         93 4801         93 4852         93 4852         93 498         93 4599		51 51
860         93 4498         93 4549         93 4599         93 4650         93 4700         93 4751         93 4801         93 4852         93 4852         93 498         93 4852         93		51
861         5003         5054         5104         5154         5205         5255         5306         5356         54         54         5205         5255         5306         5356         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         5860         59         6262         6313         6363         64         685         69         685         67         6815         6865         69         6865         69         885         93 7217         93 7267         93 7317         93 7367         93 7367         93 7367         93 7367         93 7369         78         98         7669         78         78         98         76         80         80         80         82         82         83         83         83         83         83         83         88         89         89         89         89         89         89         89         89         89         89         89	- 1	50
862         5507         5558         5608         5658         5709         5759         5809         5860         59860         79870         79870         79870         79870         79870         79870         79870         79870         79870         79870         79870 <th></th> <th>50</th>		50
863     6011     6061     6111     6162     6212     6262     6313     6363     64       864     6514     6564     6614     6665     6715     6765     6815     6865     69       865     93 7016     93 7066     93 7117     93 717     93 7217     93 7267     93 7317     93 7367     93 7367     93 7469     7769     7809     7869     79       867     8019     8069     8119     8169     8219     8269     8320     8370     84       868     8520     8570     8620     8670     8720     8770     8820     8870     89		
865     93 7016     93 7066     93 7117     93 7167     93 7217     93 7267     93 7317     93 7367		50
866         7518         7568         7618         7668         7718         7769         7819         7869         79869 <th></th> <th>50</th>		50
867         8019         8069         8119         8169         8219         8269         8320         8370         84           868         8520         8570         8620         8670         8720         8770         8820         8870         89	8 93 7468	50
868 8520 8570 8620 8670 8720 8770 8820 8870 89		50 50
		50
<b> 869 </b>   9020   9070   9120   9170   9220   9270   9320   9369   94	1	50
870   93 9519   93 9569   93 9619   93 9669   93 9719   93 9769   93 9819   93 9869   93 99		50
<b>  8</b> 71   94 0018   94 0068   94 0118   94 0168   94 0218   94 0267   94 0317   94 0367   94 04	7 94 0467	50
<b> 872   0516   0566   0616   0666   0716   0765   0815   0865   09</b>	5 0964	50
873		
875 94 2008 94 2058 94 2107 94 2157 94 2207 94 2256 94 2306 94 2355 94 24	_	50
876 2504 2554 2603 2653 2702 2752 2801 2851 29	1 2950	50
877 3000 3049 3099 3148 3198 3247 3297 3346 33		49
878         3495         3544         3593         3643         3692         3742         3791         3841         38           879         3989         4038         4088         4137         4186         4236         4285         4335         43		
N. O 1 2 3 4 5 6 7 8	9	D.

N.	0	1	2	8	4	5	в	7	8	9	D.
88o	94 4483	94 4532	94 4581	94 4631	94 4680	94 4729	94 4779	94 4828	94 4877	94 4927	49
881 882	4976	5025 5518	5074	5124 5616	5173	5222	5272	5321 5813	5370 5862	5419	49
883	5469 5961	6010	5567 6059	6108	5665 6157	5715 6207	5764 6256	6305	6354	5912 6403	49 49
884	6452	6501	6551	6600	6649	6698	6747	6796	6845	6894	49
885	94 6943	94 6992	94 7041	94 7090	94 7140	94 7189	94 7238	94 7287	94 7336	94 7385	49
886	7434	7483	7532 8022	7581 8070	7630	7679	7728 8217	7777 8266	7826 8315	7875 8364	49
887 888	7924	7973			8119	8168			8315 8804		49
88g	8413 8902	8462 8951	8511 8999	8560 9048	8609 9097	8657 9146	·8706 9195	8755 9244	9292	8853 9341	49 49
890	94 9390	94 9439	94 9488	94 9536	94 9585	94 9634	94 9683	94 9731		94 9829	49
891	9878	9926	9975	95 0024	95 0073	95 0121	95 0170	95 0219	95 0267	95 0316	49
892	95 0365	95 0414	95 0462	0511	0560	0608	0657	0706	0754	0803	49
893	0851	0900	0949	0997 1483	1046	1095	1143	1192	1240	1289	49
894	1338	1386	1435	95 1969	1532	1580 95 <b>20</b> 66	1629	1677	1726	95 2260	49 48
895 896	95 1823 2308	95 1872 2356	95 1920 2405		95 2017 2502	2550	95 2114 2599	95 2163 2647	95 2211 2696	2744	48
897	2792	2841	2889	2453 2938	2986	3034	3083	3131	3180	3228	48
898	3276	3325	3373	3421	3470	3518	3566	3615	3663	3711	48
899	3760	3808	3856	3905	3953	4001	4049	4098	4146	4194	48
900	95 4243	95 4291	95 4339	95 4387	95 4435 4918	95 4484	95 4532	95 4580	95 4628	95 4677	48 48
901 902	4725 5207	4773 5255	4821 5303	4869 5351	5399	4966 5447	5014 5495	5062 5543	5110 5592	5158 5640	
903	5688	5736	5784	5832	5880	5928	5976	6024	6072	1 2 '	48
904	6168	6216	6265	6313	6361	6409	6457	6505	6553	6601	48
905	95 6649	95 6697		95 6793	95 6840	95 6888	95 6936	95 6984			48
906	7128	7176	7224	7272	7320	7368	7416	7464		7559 8038	48 48
907 908	7607 8086	7655 8134	7703 8181	7751 8229	7799 8277	7847 8325	7894 8373	7942 8421	7990 8468	8516	48
909	8564	8612	8659	8707	8755	8803	8850	8898	8946	8994	48
910	95 9041	95 9089	95 9137	95 9185	95 9232	95 9280	95 9328	95 9375	95 9423	95 9471	48
911	9518	9566	9614	9661	9709	9757	. 9804	9852	9900	9947	48
912	9995 96 0471	96 0042	96 0090 0566	96 0138 0613	96 0185 0661	96 0233 0709	96 0280 0756	96 0328 0804	96 0376	96 0423	48 48
913 914	0946	0518 0994	1041	1089	1136	1184	1231	1279	1326	1374	48
915	96 1421	96 1469	96 1516	96 1563	96 1611	96 1658	96 1706	96 1753	96 1801	96 1848	47
916	1895	1943	1990	2038	2085	2132	2180	2227	2275	2322	47
917	2369	2417	2464	2511	2559	2696	2653	2701	2748	2795	47
918	2843 3316	2890 3363	2937 3410	2985 3457	3032 3504	3079 3552	3126 3599	3174 3646	3221 3693	3268 3741	47 47
920	96 3788	96 3835	96 3882	96 3929	96 3977	96 4024	96 4071	96 4118	96 4165	96 4212	47
921	4260	4307	4354	4401	4448	4495	4542	4590	4637	4684	47
922	4731	4778	4825	4872	4919	4966	5013	5061	5108	5155	47
923	5202	5249	5296 5766	5343	5390	5437	5484	5531 6001	5578 6048	5625 6095	47
924	5672 96 6142	5719 96 6189		5813 96 6283	5860 96 6329	5907 96 6376	5954 96 6423	96 6470	96 6517	96 6564	47
925 926	6611	6658	6705	6752	6799	6845	6892	6939	6986	7033	47 47
927	7080	7127	7173	7220	7267	7314	7361	7408	7454	7501	47
928	7548 8016	7595	7642	7688	7735 8203	7782	7829	7875	7922	7969	47
929	•	8062	8109	8156	8203	8249	8296	8343	8390	8436	47
930	96 8483 8950	8996	96 8576 9043	96 8623	96 8670	96 8716	96 8763	96 8810	96 8856	96 8903	47
931	9416	9463	9509	9556	9602	9649	9695	9742	9323 9789	9835	47     47
933	9882	9928	9975	97 0021	97 0068	97 01 14	97 0161	97 0207	97 0254	97 0300	47
934		97 0393	1	0486	0533	0579	0626	0672	0719	0765	46
935	97 0812	97 0858	97 0904	97 0951		97 1044	97 1090	97 1137			46
936 937	1276 1740	1322 1786	1832	1415	1461 1925	1508	1554 2018	1601 2064	1647 2110	1693 2157	46 46
938	2203	2249	2295	2342	2388	2434	2481	2527	2573	2619	46
939	2666	2712	2758	2804	2851	2897	2943	2989	3035	3082	46
N.	0	1	2	3	4	5	6	7	8	9	D.

N.	0	1	2	3	4	5	6	7	8	9	D.
940	97 31 28	97 3174	97 3220	97 3266	97 3313	97 3359	97 3405	97 3451	97 3497	97 3543	46
941	3590	•3636	3682	3728	3774	3820 4281	3866	3913	3959	4005 4466	46 46
942	4051 4512	4097 4558	4143 4604	4189 - 4650	4235 4696	4742	4327 4788	4374 4834	4420 4880	4926	46
944	4972	5018	5064	5110	5156	5202	5248	5294	5340	5386	46
945	97 5432	97 5478	97 5524	97 5570	97 5616	97 5662	97 5707	97 5753	97 5799	97 5845	46
946	5891	5937	5983	6029	6075	6121	6167	6212	6258	6304 6763	46 46
947 948	6350 6808	6396 6854	6442 6900	6488 6946	6533 6992	6579 7037	6625 7083	6671 7129	6717 7175	7220	46
949	7266	7312	7358	7403	7449	7495	7541	7586	7632	7678	46
950	97 7724	97 7769	97 7815	97 7861	97 7906	97 7952	97 7998	97 8043	97 8089	97 8135	46
951	8181	8226	8272	8317	8363	8409	8454	8500	8546	8591	46
952 953	8637 9093	8683 9138	8728 9184	8774 9230	8819 9275	8865 9321	8911 9366	8956 9412	9002 9457	9047 9503	46 46
954	9548	9594	9639	9685	9730	9776	9821	9867	9912	9958	46
955	98 0003	98 0049	98 0094	98 0140	98 0185	98 0231	98 0276	98 0322	98 0367	98 0412	
956	0458	0503	0549	0594	0640	0685	0730	0776	0821	0867	
957	0912	0957 1411	1003 1456	1048	1093	1139	1184 1637	1229 1683	1275 1728	1320	45
958 959	1819	1864	1909	1954	1547 2000	1592 2045	2090	2135	2181	1773 2226	45 45
960	98 2271	98 2316	98 2362	98 2407	98 2452	98 2497	98 2543	98 2588	1	98 2678	45
961	2723	2769	2814	2859	2904	2949	2994	3040	3085	3130	45
962	3175 3626	3220	3265	3310	3356	3401	3446	3491	3536	3581	45
963 964	4077	3671 4122	3716 4167	3762 4212	3807 4257	3852 4302	3897 4347	3942 4392	3987 4437	4032 4482	
965	98 4527	98 4572	98 4617	98 4662	98 4707	98 4752	98 4797	98 4842	98 4887	98 4932	45
966	4977	5022	5067	5112	5157	5202	5247	5292	5337	5382	45
967	5426	5471	5516	5561	5606	5651	5696	5741	5786	5830	1
968 969	5875 63 <b>24</b>	59 <b>2</b> 0 6369	5965 6413	6010 6458	6055 6503	6100 6548	6593	6189	6234 6682	6279	
970	98 6772	98 6817	98 6861	98 6906	98 6951	98 6996	98 7040	98 7085	98 7130	98 7175	45
971	7219	7264	7309	7353	7398	7443	7488	7532	7577	7622	45
972	7666	7711 8157	7756	7800	7845	7890	7934 8381	7979	8024	8068	
973 1 974	8113 8559	8604	8202 8648	8247 8693	8291 8737	8336 8782	8826	8425 8871	8470 8916	8514 8960	45 45
975	98 9005	98 9049	98 9094	98 91 38	98 9183	98 9227	98 9272	98 9316	98 9361	98 9405	45
976	9450	9494	9539	9583	9628	9672	9717	9761	9806	9850	44
977	9895	9939	9983	99 0028	99 0072	99 01 17	99 0161	99 0206	99 0250	99 0294	44
978	99 0339 0783	99 0383 0827	99 0428 0871	0472 0916	0516 0960	0561 1004	0605 1049	0650 1093	0694 1137	0738	44
979 980	99 1226	99 1270	99 1315	99 1359	99 1403	99 1448	99 1492	99 1536	99 1580	99 1625	44
981	1669	1713	1758	1802	1846	1890	1935	1979	2023	2067	44
982	2111	2156	2200	2244	2288	2333	2377	2421	2465	2509	44
983 984	2554 2995	2598 3039	2642 3083	2686 3127	2730	2774	2819 3260	<b>28</b> 63	2907 2248	2951 3392	44
985		99 3480	99 3524	99 3568	3172 99 3613	3216 99 3657	99 3701	3304 99 3745	3348 99 3789	99 3833	44
986	3877	3921	3965	4009	4053	4 <b>0</b> 97	4141	4185	4229	4273	44
987	4317	4361	4405	4449	4493	4537	4581	4625	4669	4713	44
988	4757	4801	4845	4889	4933	·4977	5021	5065	5108	5152	44
989	5196 99 5635	5240 99 5679	5284	5328	5372 99 5811	5416	5460	5504	5547 99 <u>5</u> 986	5591 99 6030	44
990 991	6074	6117	6161	6205	6249	6293	6337	99 5942 6380	6424	6468	44 44
992	6512	6555	6599	6643	6687	6731	6774	6818	6862	6906	
993	6949	6993	7037	7080	7124	7168	7212	7255	<b>72</b> 99	7343	44
994	7386 99 7823	7430	7474	7517	7561	7605	7648	7692	7736	7779	44
995 996	99 7823 8259	99 7867 8303	99 7910 8347	99 7954 8390	99 7998 8434	99 8041	99 8085 8521	99 81 29 8564	99 8172 8608	99 <b>82</b> 16 8652	44 44
997	8695	8739	8782	8826	8869	8913	8956	9000	9043	9087	44
998	9131	9174	9218	9261	9305	9348	9392	9435	9479	9522	44
999	9565	9609	9652	9696	9739	9783	9826	. 9870	9913	9957	43
N.	0	1	2	3	4	5	6	7	8	9	D.

## A TABLE

OF THE

# LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS,

FOR EVERY

DEGREE AND MINUTE FROM 0° TO 90°.

# 18 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS. $\mathbf{0}^{\circ}$

	<u> </u>	70.24		12.25		70 000 1		
K.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	-00		10.000 000		-00		-00	60
I	6.463 726	5017.17	,000 000	.00	6.463 726	5017.17	3.536 274	59
2	.764 756 .940 847	2934.85	.000 000	.00	.764 756 .940 847	2934.85	.235 244	58
3 4	7.065 786	2082.32	.000 000	.00	7.065 786	2082.32	2.934 214	57 56
	7.162 696	1615.17	10,000 000	.00	7.162 696	1615.17	2.837 304	7.60
5 6	.241 877	1319.68	9.999 999	.02	.241 878	1319.70	.758 122	55
7	.308 824	1115.78	.999 999	.00	.308 825	1115.78	.691 175	54 53
8	.366 816	966.53	.999 999	.00	.366 817	966.53	.633 183	52
ا و ا	.417 968	852.53	.999 999	.00	.417 970	852.55 762.62	.582 030	51
10	7.463 726	762.63	9.999 998		7.463 727	•	2.536 273	50
11	.505 118	689.87 629.80	.999 998	.00	.505 120	689.88 629.82	494 880	49
12	.542 906	579.37	-999 997	.00	.542 909	579.38	-457 091	48
13	.577 668	536.42	-999 997	.02	.577 672	536.42	.422 328	47
14	.609 853	499.38	.999 996	.00	.609 857	499.38	.390 143	46
15	7.639 816	467.15	9.999 996	.02	7.639 820	467.15	2.360 180	45
16	.667 845	438.80	-999 995	.00	.667 849	438.83	.332 151	44
17	.694 173	413.73	.999 995	.02	.694 179	413.73	.305 821	43
18	.718 997	391.35	·999 994	.02	.719 003	391.35	.280 997	42
19	.742 478	371.27	.999 993	.00	.742 484	371.28	.257 516	41
20	7.764 754	353.15	9.999 993	.02	7.764 761	353.17	2.235 239	40
21 22	.785 943 .806 146	336.72	.999 992 .999 991	.02	.785 951 .806 155	336.73	.193 845	39
23	.825 451	321.75	.999 990	.02	.825 460	321.75	.174 540	38
24	.843 934	308.05	.999 989	.02	.843 944	308.07	.156 056	36
25	7.861 662	295.47	9.999 989	.00	7.861 674	295.50	2.138 326	35
26	.878 695	283.88	.999 988	.02	.878 708	283.90	.121 292	34
27	.895 085	273.17	.999 987	.02	.895 099	273.18	.104 901	33
28	.910 879	263.23 254.00	.999 986	.02	.910 894	263.25 254.00	.089 106	32
29	.926 119	245.38	.999 985	.03	.926 134	245.40	.073 866	31
30	7.940 842		9.999 983	.02	7.940 858		2.059 142	30
31	.955 082	237.33 229.80	.999 982	.02	.955 100	237.37 229.82	.044 900	29
32	.968 870	222.72	.999 981	.02	.968 889	222.73	.031 111	28
33	.982 233	216.08	.999 980	.02	.982 253	216.10	.017 747	27
34	.995 198	209.82	.999 979	.03	.995 219	209.83	.004 781	26
35	8.007 787	203.90	9.999 977	.02	8.007 809	203.92	1.992 191	25
36	.020 021	198.30	.999 976	.02	.020 044	198.35	.979 956	24
37 38	.031 919 .043 501	193.03	.999 975 .999 973	.03	.031 945 .043 527	193.03	.968 055	23
39	.054 781	188.00	.999 973	.02	.054 809	188.03	.956 473	21
40	8.065 776	183.25	9.999 971	.02	8.065 806	183.28		20
41	.076 500	178.73	.999 969	.03	.076 531	178.75	.923 469	19
42	.086 965	174.42	.999 968	.02	.086 997	174.43	.913 003	18
43	.097 183	170.30	.999 966	.03	.097 217	170.33	.902 783	17
44	.107 167	166.40 162.65	.999 964	.03	.107 203	166.43 162.67	.892 797	16
45	8.116 926		9.999 963	ı	8.116 963	1 .	1.883 037	15
46	.126 471	159.08 155.65	.999 961	.03	.126 510	159.12 155.68	.873 490	14
47	.135 810	152.38	-999 959	.03	.135 851	152.42	.864 149	13
48	.144 953	149.23	.999 958	.03	.144 996	149.27	.855 004	12
49	.153 907	146.23	.999 956	.03	.153 952	146.25	.846 048	11
50	8.162 681	143.32	9.999 954	.03	8.162 727	143.35	1.837 273	10
51	.171 280	140.55	.999 952	.03	.171 328	140.58	.828 672	9
52	.179 713 .187 985	137.87	.999 950	.03	.179 763 .188 036	137.88	.820 237 .811 964	
53 54	.196 102	135.28	.999 948 .999 946	.03	.196 156	135.33	.803 844	7 6
1	8.204 070	132.80	9.999 940	.03	8.204 126	132.83	1.795 874	
55 56	.211 895	1 30.42	.999 944	.03	.211 953	130.45	.788 047	5 4
57	.219 581	128.10	.999 942	.03	.219 641	128.13	.780 359	3
58	.227 134	125.88	.999 938	.03	.227 195	125.90	.772 805	2
59	·234 557	123.72	.999 936	.03	.234 621	123.77	.765 379	I
60	8.241 855	121.63	9.999 934	.03	8.241 921	121.67	1.758 079	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	T.
		ו"ו.ע.ן	1 2007.	900	OUT.	D. 1".	T #111	-≛•

# Logarithmic sines, cosines, tangents, and cotangents. 19 $1^{\circ}$

K.	Sin.	D. 1".	Cos.	1°   D. 1″.	Tan.	D. 1".	Cot.	
	8.241 855		9.999 934		8.241 921		1.758 079	бо
ĭ	.249 033	119.63	.999 934	.03	.249 102	119.68	.750 898	59
2	.256 094	117.68	.999 929	.05	.256 165	117.72	-743 835	58
3	.263 042	115.80	.999 927	.03	.263 115	115.83	.736 885	57
4	.269 881	113.98	.999 925	.03	.269 956	114.02	.730 044	56
	8.276 614	112.22		.05	8.276 691	112.25		10000
5		110.48	9.999 922	.03	.283 323	110.53	1.723 309	55
	.283 243	108.83	.999 920 .999 918	.03	.289 856	108.88	.716 677	54
7 8	.289 773 .296 207	107.23	.999 915	.05	.296 292	107.27	.703 708	53 52
	.302 546	105.65	.999 913	.03	.302 634	105.70	.697 366	
9		104.13		.05		104.17	The second secon	51
10	8.308 794	102.67	9.999 910	.05	8.308 884	102.70	1.691 116	50
11	.314 954	101.22	.999 907	.03	.315 046	101.27	.684 954	49
12	.321 027	99.82	.999 905	.05	.321 122	99.87	.678 878	48
13	.327 016	98.47	.999 902	.05	.327 114	98.52	.672 886	47
14	.332 924	97.15	.999 899	.03	.333 025	97.18	.666 975	46
15	8.338 753	95.85	9.999 897	.05	8.338 856	95.90	1.661 144	45
16	344 504	94.62	.999 894	.05	.344 610	94.65	.655 390	44
17	.350 181	93.37	.999 891	.05	.350 289		.649 711	43
18	.355 783	93.37	.999 888		.355 895	93.43	.644 105	42
19	.361 315	-	.999 885	.05	.361 430	92.25 91.08	.638 570	41
20	8.366 777	91.03	9.999 882	.05	8.366 895		1.633 105	40
21	.372 171	89.90	.999 879	.05	.372 292	89.95	.627 708	39
22	·377 499	88.8o	.999 876	.05	.377 622	88.83	.622 378	38
23	.382 762	87.72	.999 873	.05	.382 889	87.78	.617 111	37
24	.387 962	86.67	.999 870	.05	.388 092	86.72	.611 908	36
-		85.65		.05		85.70	The second secon	10.00
25	8.393 101	84.63	9.999 867	.05	8.393 234	84.68	1.606 766	35
26	.398 179	83.67	.999 864	.05	.398 315	83.72	.601 685	34
27	.403 199	82.70	.999 861	.05	.403 338	82.77	.596 662	33
28	.408 161	81.78	.999 858	.07	.408 304	81.82	.591 696	32
29	.413 068	80.85	.999 854	.05	.413 213	80.92	.586 787	31
30	8.417 919		9.999 851	.05	8.418 068	80.02	1.581 932	30
31	.422 717	79.97 79.08	.999 848		.422 869		-577 131	29
32	.427 462		.999 844	.07	.427 618	79.15	.572 382	28
33	.432 156	78.23	.999 841	.05	.432 315	78.28	.567 685	27
34	.436 800	77.40	.999 838	.05	.436 962	77.45	.563 038	26
35	8.441 394	76.57	9.999 834	.07	8.441 560	76.63	1.558 440	25
35 36	.445 941	75.78	.999 831	.05	.446 110	75.83	.553 890	24
37	.450 440	74.98	.999 827	.07	.450 613	75.05	.549 387	23
38	.454 893	74.22	.999 824	.05	.455 070	74.28	.544 930	22
39	.459 301	73.47	.999 820	.07	.459 481	73.52	.540 519	21
		72.73	1,999 020	.07	-	72.80		- County
40	8.463 665	72.00	9.999 816	.05	8.463 849	72.05	1.536 151	20
41	.467 985	71.30	.999 813	.07	.468 172	71.37	.531 828	19
42	.472 263	70.58	.999 809	.07	-472 454	70.65	-527 546	18
43	.476 498	69.92	.999 805	.07	.476 693	69.98	.523 307	17
44	.480 693	69.25	.999 801	.07	.480 892	69.30	.519 108	16
45	8.484 848	68.58	9.999 797	.05	8.485 050	68.67	1.514 950	15
46	.488 963	67.95	-999 794	.07	.489 170	68.00	.510 830	14
47	.493 040	67.30	.999 790	.07	.493 250	67.38	.506 750	13
48	.497 078	66.70	.999 786	.07	-497 293	66.75	.502 707	12
49	.501 080	66.08	.999 782	.07	.501 298	66.15	.498 702	II
50	8.505 045	1	9.999 778		8.505 267		1.494 733	10
51	.508 974	65.48	.999 774	.07	.509 200	65.55	.490 800	9
52	.512 867	64.88	.999 769	.08	.513 098	64.97	.486 902	8
53	.516 726	64.32	.999 765	.07	.516 961	64.38	.483 039	7
54	.520 551	63.75	.999 761	.07	.520 790	63.82	479 210	6
	8.524 343	63.20	9.999 757	.07	8.524 586	63.27		
55 56	.528 102	62.65		.07		62.72	1.475 414	5
-		62.10	999 753	.o8	.528 349	62.18	457 030	4
57 58	.531 828	61.58	.999 748	.07	.532 080	61.65	467 920	3 2
58	.535 523	61.05	999 744		·535 779	61.13	464 221	
59	.539 186	60.55	.999 740	.07	.539 447	60.62	.460 553	1
60	8.542 819		9.999 735	1	8.543 084		1.456 916	0

2~										
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.			
0	8.542 819		9.999 735		8.543 084	60.00	1.456 916	60		
ī	.546 422	60.05	.999 731	.07	.546 691	60.12 59.62	-453 309	59		
2	-549 995	59.55	.999 726	.07	.550 268	59.02	·449 732	58		
<b> </b> 3	-553 539	59.07 58.58	.999 722	.08	.553 817	58.65	.446 183	57		
4	·557 °54	58.10	.999 717	.07	.557 336	58.20	.442 664	56		
5	8.560 540	57.65	9.999 713	.08	8.560 828	57.72	1.439 172	55		
6	.563 999	57.05	.999 708	.07	.564 291	• • •	-435 709	54		
7	.567 431	57.20 56.75	.999 704	.08	.567 727	57.27 56.83	.432 273	53		
8	. <b>57</b> 0 836	56.30	.999 699	.08	.571 137	56.38	.428 863	52		
9	.574 214	55.87	.999 694	.08	.574 520	55.95	.425 480	5 I		
10	8.577 566	55-43	9.999 689	.07	8.577 877	55.52	1.422 123	50		
11	.580 892	55.02	.999 685	.08	.581 208	55.10	.418 792	49		
12	.584 193	54.60	.999 680	.08	.584 514	54.68	415 486	48		
13	.587 469	54.20	.999 675	.08	.587 795	54.27	.412 205	47		
14	.590 721	53.78	.999 670	.08	.591 051	53.87	<b>.</b> 408 949	46		
15	8.593 948	53.40	9.999 665	.08	8.594 283	53.48	1.405 717	45		
16	.597 152	53.00	.999 660	.08	.597 492	53.08	.402 508	44		
17	.600 332	52.62	.999 655	.08	.600 677	52.70	.399 323	43		
18	.603 489	52.23	.999 650	.08	.603 839	52.32	.396 161	42		
19	.606 623	51.85	.999 645	.08	.606 978	51.93	.393 022	4I		
20	8.609 734	51.48	9.999 640	.08	8.610 094	51.58	1.389 906	40		
21	.612 823	51.13	.999 635	.10	.613 189	51.22	.386 811	39		
22	.615 891	50.77	.999 629	.08	.616 262	50.85	.383 738	38		
23	.618 937	50.42	.999 624	.08	.619 313	50.50	.380 687	37		
24	.621 962	50.05	.999 619	.08	.622 343	50.15	.377 657	36		
25	8.624 965	49.72	9.999 614	.10	8.625 352	49.80	1.374 648	35		
26	.627 948	49.38	.999 608	.08	.628 340	49.47	.371 660	34		
27	.630 911	49.05	.999 603	.10	.631 308	49.13	.368 692	33		
28	.633 854	48.70	-999 597	.08	.634 256	48.8ŏ	-365 744	32		
29	.636 776	48.40	.999 592	.10	.637 184	48.48	.362 816	31		
30	8.639 680	48.05	9.999 586	.08	8.640 093	48.15	1.359 907	30		
31	.642 563	47.75	.999 581	.10	.642 982	47.85	.357 018	29		
32	.645 428	47.43	·999 575	.08	.645 853	47.52	.354 147	28		
33	.648 274	47.13	.999 570	.10	.648 704	47.22	.351 296 .348 463	27 26		
34	.651 102	46.82	.999 564	.10	.651 537	46.92				
35	8.653 911	46.52	9.999 558	.08	8.654 352	46.62	1.345 648	25		
36	.656 702	46.22	•999 553	.10	.657 149	46.32	.342 851	24		
37	.659 475	45.92	.999 547	.10	.659 928 .662 689	46.02	.340 072	23		
38	.662 230 .664 968	45.63	.999 541	.10	.665 433	45.73	.337 311 .334 567	21		
39		45.35	•999 535	.10		45.45				
40	8.667 689	45.07	9.999 529	.08	8.668 160 .670 870	45.17	1.331 840	20		
41	.670 393 .673 080	44.78	.999 524	.10	.673 563	44.88	.329 130 .326 437	19		
42	.675 751	44.52	.999 518	.10	.676 239	44.60	.323 761	17		
43	.678 405	44.23	.999 506	.10	.678 900	44·35 ·	.321 100	16		
	8.681 043	43-97		.10	8.681 544	44.07	1.318 456			
45	.683 665	43.70	9.999 500	.12	.684 172	43.80	.315 828	15 14		
46 47	.686 272	43.45	.999 493	.10	.686 784	43.53	.313 216	13		
48	.688 863	43.18	.999 481	.10	.689 381	43.28	.310 619	12		
49	.691 438	42.92	999 475	.10	.691 963	43.03	.308 037	111		
50	8.693 998	42.67	9.999 469	.10	8.694 529	42.77	1.305 471	10		
51	.696 543	42.42	.999 463	.10	.697 081	42.53	.302 919	ا و ا		
52	.699 073	42.17	.999 456	.12	.699 617	42.27	.300 383	8		
53	.701 589	41.93	.999 450	.10	.702 1 39	42.03	.297 861	7		
54	.704 090	41.68	999 443	.12	.704 646	41.78	.295 354	6		
55	8.706 577	41.45	9.999 437	.10	8.707 140	41.57	1.292 860	5		
56	.709 049	41.20	.999 431	.10	.709 618	41.30	.290 382	4		
57	.711 507	40.97	.999 424	.12	.712 083	41.08	.287 917	3		
58	.713 952	40.75	.999 418	.10	.714 534	40.85	.285 466	2		
59	.716 383	40.52 40.28	.999 411	.12	.716 972	40.63	.283 028	1		
60	8.718 800	40.20	9.999 404	.12	8.719 396	40.40	1.280 604	0		
		D 1"		D. 1".		D 1"		M.		
	Cos.	D. 1".	Sin.	וע ו".	Cot.	D. 1".	Tan.	<b></b>		

- V		D 1"	a.,	<u> 3°</u>		D 1#	G-A	
<u>K.</u>	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Oot.	
0	8.718 800	40.07	9.999 404	.10	8.719 396	40.17	1.280 604	60
1 2	.721 204	39.85	.999 398	.12	.721 806	39.97	.278 194	59 58
3	.723 595 .725 972	39.62	.999 391 .999 384	.12	.724 204 .726 588	39.73	.275 796 .273 412	57
4	.728 337	39.42	.999 378	.10	.728 959	39.52	.271 041	56
1 1	8.730 688	39.18	9.999 371	.12	8.731 317	39.30	1.268 683	55
5 6	.733 027	38.98	.999 364	.12	.733 663	39.10	.266 337	55 54
7	·735 354	38.78	-999 357	.I 2	.735 996	38.88	.264 004	53
8	.737 667	38.55	.999 350	.12	.738 317	38.68	.261 683	52
9	.739 969	38.37	999 343	.12 .12	.740 626	38.48	.259 374	51
10	8.742 259	38.17	9.999 336	1	8.742 922	38.27	1.257 078	50
11	.744 536	37.95	.999 329	.12 .12	.745 207	38.08 37.87	.254 793	49
12	.746 802	37.77	.999 322	.12	·747 479	37.68 37.68	.252 521	48
13	.749 055	37·55 37·37	.999 315	.12	.749 740	37.48	.250 260	47
14	.751 297	37.18	.999 308	.12	.751 989	37.30	.248 011	46
15	8.753 528	36.98	9.999 301	.12	8.754 227	37.10	1.245 773	45
16	·755 747	36.80	999 294	.12	.756 453	36.92	·243 547	44
17	·757 955	36.60	.999 287	.13	.758 668	36.73	.241 332	43
18	.760 151	36.43	.999 279	.12	.760 872	36.55	.239 128	42
19	.762 337	36.23	.999 272	.12	.763 065	36.35	.236 935	4I
20	8.764 511	36.07	9.999 265	.13	8.765 246	36.18	1.234 754	40
21	.766 675 .768 828	35.88	.999 257 .999 250	.12	.767 417 .769 578	36.02	.232 583 .230 422	39 38
23	.770 970	35.70	.999 242	.13	.709 578	35.82	.228 273	37
24	.773 101	35.52	.999 235	.12	.773 866	35.65	.226 134	36
25	8.775 223	35⋅37	9.999 227	.13	8.775 995	35.48	1.224 005	35
26	·777 333	35.17	.999 220	.12	.778 114	35.32	.221 886	35
27	·779 434	35.02	.999 212	.13	.780 222	35.13	.219 778	33
28	.781 524	34.83 34.68	.999 205	.12	.782 320	34.97	.217 680	32
29	.783 605	34.50	.999 197	.13 .13	.784 408	,34.80 34.63	.215 592	31
30	8.785 675		9.999 189	- 1	8.786 486	1	1.213514	30
. 31	.787 736	34-35 34-18	.999 181	.13 .12	.788 554	34.47	.211 446	29
32	.789 787	34.02	.999 174	.13	.790 61 3	34.32 34.15	.209 387	28
33	.791 828	33.85	.999 166	.13	.792 662	33.98	.207 338	27
34	.793 859	33.70	.999 158	.13	.794 701	33.83	.205 299	26
35	8.795 881	33.55	9.999 150	.13	8.796 731	33.68	1.203 269	25
36	.797 894	33.38	.999 142	.13	.798 752	33.52	.201 248	24
37	.799 897 .801 892	33.25	.999 I 34 .999 I 26	.13	.800 763 .802 765	33.37	.199 237	23
38	.803 876	33.07	.999 118	.13	.804 758	33.22	.197 235 .195 242	22 21
	8.805 852	32.93	9.999 110	.13	8.806 742	33.07	1.193 258	20
40 41	.807 819	32.78	.999 102	.13	.808 717	32.92	.191 283	19
42	.809 777	32.63	.999 094	.13	.810 683	32.77	.189 317	18
43	.811 726	32.48	.999 086	.13	.812 641	32.63	.187 359	17
44	.813 667	32.35 32.20	.999 077	.15	.814 589	32.47	.185 411	16
45	8.815 599		9.999 069	.13	8.816 529	32.33	1.183 471	15
46	.817 522	32.05	.999 061	.13	.818 461	32.20	.181 539	14
47	.819 436	31.90 31.78	.999 053	.13 .15	.820 384	32.05 31.90	.179 616	13
48	.821 343	31.62	.999 044	.13	.822 298	31.78	.177 702	12
49	.823 240	31.50	.999 036	.15	.824 205	31.63	.175 795	11
50	8.825 130	31.35	9.999 027	.13	8.826 103	31.48	1.173 897	10
51	.827 011	31.22	.999 019	.15	.827 992	31.37	.172 008	9
52	.828 884 .830 749	31.08	.999 010	.13	.829 874 .831 748	31.23	.170 126 .168 252	8
53 54	.830 749 .832 607	30.97	.999 002 .998 993	.15	.833 613	31.08	.166 387	7
		30.82	9.998 984	.15	8.835 471	30.97		1
55 56	8.834 456 .836 297	30.68	.998 976	.13	.837 321	30.83	1.164 529 .162 679	5 4
57	.838 130	30.55	.998 967	.15	.839 163	30.70	.160 837	3
58	.839 956	30.43	.998 958	.15	.840 998	30.58	.159 002	2
59	.841 774	30.30	.998 950	.13	.842 825	30.45	.157 175	I
60	8.843 585	30.18	9.998 941	.15	8.844 644	30.32	1.155 356	0
I	I———	D. 1".		D. 1".	Cot.	D. 1".		<b>M</b> .
	Cos.	ו, די, די	Sin.	ש, ז״.	1 0024	D. 1".	Tan.	_ <u>=</u> .

4°										
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.			
0	8.843 585	20.02	9.998 941		8.844 644	20.18	1.155 356	60		
1	.845 387	30.03	.998 932	.15	.846 455	30.18 30.08	.153 545	59		
2	.847 183	29.93 29.80	.998 923	.15	.848 260	29.95	.151 740	58		
3	.848 971	29.67	.998 914	.15	.850 057	29.82	.149 943	57		
4	.850 751	29.57	.998 905	.15	.851 846	29.70	.148 154	56		
5	8.852 525	29.43	9.998 896	.15	8.853 628	29.58	1.146 372	55		
6	.854 291	29.30	.998 887	.15	.855 403	29.47	-144 597	54		
7	.856 049	29.20	.998 878	.15	.857 171	29.35	.142 829	53		
8	.857 801	29.08	.998 869	.15	.858 932	29.23	.141 068	52		
9	.859 546	28.95	.998 860	.15	.860 686	29.12	.139 314	51		
10	8.861 283	28.85	9.998 851	.17	8.862 433	29.00	1.137 567	50		
11	.863 014	28.73	.998 841	.15	.864 173	28.88	.1 35 827	49		
12	.864 738	28.62	.998 832	.15	.865 906	28.77	.134 094	48		
13	.866 455	28.50	.998 823	.17	.867 632	28.65	.132 368	47		
14	.868 165	28.38	.998 813	.15	.869 351	28.55	.130 649	46		
15	8.869 868	28.28	9.998 804	.15	8.871 064	28.43	1.128 936	45		
16	.871 565	28.17	998 795	.17	.872 770	28.32	.127 230	44		
17	.873 255	28.05	.998 785	.15	.874 469	28.22	.125 531	43		
18	.874 938 876 615	27.95	.998 776	.17	.876 162 877 840	28.12	.123 838	42		
19	.876 615	27.83		.15	.877 849	28.00	.122 151	4 <sup>1</sup>		
20	8.878 285	27.73	9.998 757	.17	8.879 529	27.88	1.120 471	40		
21	.879 949 .881 607	27.63	.998 747 .998 738	.15	.881 202	27.78	.118 798	39		
22	.883 258	27.52	.998 738	.17	.884 530	27.68	.117 131	38		
23 24	.884 903	27.42	.998 718	.17	.886 185	27.58	.113 815	37 36		
1 1	8.886 542	27.32	9.998 708	.17	8.887 833	27.47	1.112 167	1 - 1		
25 26	.888 174	27.20	.998 699	.15	.889 476	27.38	.110 524	35		
27	.889 801	27.12	.998 689	.17	.891 112	27.27	.108 888	34		
28	.891 421	27.00	.998 679	.17	.892 742	27.17	.107 258	33		
29	.893 035	26.90	.998 669	.17	.894 366	27.07	.105 634	31		
30	8.894 643	26.80	9.998 659	.17	8.895 984	26.97	1.104 016	30		
31	.896 246	26.72	.998 649	.17	.897 596	26.87	.102 404	29		
32	.897 842	26.60	.998 639	.17	.899 203	26.78	.100 797	28		
33	.899 432	26.50 26.42	.998 629	.17	.900 803	26.67	.099 197	27		
34	.901 017	26.32	.998 619	.17	.902 398	26.58 26.48	.097 602	26		
35	8.902 596	26.22	9.998 609	.17	8.903 987		1.096 013	25		
36	.904 169	26.12	.998 599	.17	.905 570	26.38 26.28	.094 430	24		
37	.905 736	26.02	.998 589	.17	.907 147	26.20	.092 853	23		
38	.907 297	25.93	.998 578	.17	.908 719	26.10	.091 281	22		
39	.908 853	25.85	.998 568	.17	.910 285	26.02	.089 715	21		
40	8.910 404	25.75	9.998 558	.17	8.911846	25.92	1.088 154	20		
4I	.911 949	25.65	.998 548	.18	.913401	25.83	.086 599	19		
42	.913 488	25.57	.998 537	.17	.914 951	25.73	.085 049	18		
43	.915 022	25.47	.998 527	.18	.916 495	25.65	.083 505	17		
44	.916 550	25.38	.998 516	.17	.918 034	25.57	.081 966	16		
45	8.918 073	25.30	9.998 506	.18	8.919 568	25.47	1.080 432	15		
46	.919 591	25.20	.998 495	.17	.921 096	25.38	.078 904	I4		
47 48	.921 103 .922 610	25.12	.998 485 .998 474	.18	.922 619 .924 136	25.28	.077 381	13		
49	.924 112	25.03	.998 464	.17	.925 649	25.22	.074 351	111		
		24.95	9.998 453	.18	8.927 156	25.12	1.072 844			
50 51	8.925 609 .927 100	24.85	9.998 442	81.	.928 658	25.03	.071 342	10		
52	.928 587	24.78	.998 431	.18	.930 155	24.95	.069 845	8		
53	.930 068	24.68	.998 421	.17	.931 647	24.87	.068 353	7		
54	.931 544	24.60	.998 410	.18	.933 134	24.78	.066 866	6		
55	8.933 015	24.52	9.998 399	.18	8.934 616	24.70	1.065 384			
56	.934 481	24.43	.998 388	81.	.936 093	24.62	.063 907	5 4		
57	.935 942	24.35	.998 377	.18	.937 565	24.53	.062 435	3		
58	.937 398	24.27	.998 366	.18	.939 032	24.45	.060 968	2		
59	.938 850	24.20 24.10	.998 355	.18	.940 494	24.37	.059 506	1		
60	8.940 296		9.998 344		8.941 952	24.30	1.058 048	0		
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	<b>K</b> .		
	1 0000	2.1.	<u>уш.</u>	J. 1	1 006	J. I.	1 2411.			

M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	8.940 296	24.03	9.998 344	.18	8.941 952	24.20	1.058 048	60
1	.941 738		.998 333	.18	.943 404		.056 596	59
2	.943 174	23.93 23.87	.998 322	.18	.944 852	24.13 24.05	.055 148	58
3	.944 606		.998 311	.18	.946 295	23.98	.053 705	57
4	.946 034	23.80	.998 300	81.	-947 734		.052 266	56
5	8.947 456	23.70	9.998 289	1	8.949 168	23.90	1.050 832	55
6	.948 874	23.63	.998 277	.20	.950 597	23.82	.049 403	54
7	.950 287	23.55	.998 266	.18	.952 021	23.73	.047 979	53
8	.951 696	23.48	.998 255	.18	.953 441	23.67	.046 559	52
9	.953 100	23.40	.998 243	.20	.954 856	23.58	.045 144	51
10	8.954 499	23.32	9.998 232	.18	8.956 267	23.52	1.043 733	50
	.955 894	23.25	.998 232	.20		23.45	.042 326	
11	.957 284	23.17	.998 209	.18	.957 674	23.35	.040 925	49
	058 650	23.10	.998 197	.20	.959 075	23.30		
13	.958 670	23.03	.998 186	.18	.960 473 .961 866	23.22	.039 527	47
14	.960 052	22.95		.20		23.15	.038 134	46
15	8.961 429	22.87	9.998 174	.18	8.963 255	23.07	1.036 745	45
16	.962 801	22.82	.998 163	.20	.964 639	23.00	.035 361	44
17	.964 170	22.73	.998 151	.20	.966 019	22.92	.033 981	43
18	.965 534	22.65	.998 1 39	.18	.967 394	22.87	.032 606	42
19	.966 893	22.60	.998 1 28	.20	.968 766	22.78	.031 234	41
20	8.968 249	Ī	9.998 116		8.970 133		1.029 867	40
21	.969 600	22.52	.998 104	.20	.971 496	22.72	.028 504	39
22	.970 947	22.45	.998 092	.20	.972 855	22.65	.027 145	38
	.972 289	22.37	.998 080	.20	.974 209	22.57	.025 791	
23		22.32	.998 068	.20	.975 560	22.52		37
24	.973 628	22.23		.20		22.43	.024 440	36
25	8.974 962	22.18	9.998 056	.20	8.976 906	22.37	1.023 094	35
26	.976 293	22.10	.998 044	.20	.978 248	22.30	.021 752	34
27	.977 619	22.03	.998 032	.20	.979 586	22.25	.020 414	33
28	.978 941	21.97	.998 020	.20	.980 921	22.17	.019 079	32
29	.980 259		.998 008	.20	.982 251	22.10	.017 749	31
30	8.981 573	21.90	9.997 996	1	8.983 577		1.016 423	30
31	.982 883	21.83	.997 984	.20	.984 899	22.03	.015 101	29
32	.984 189	21.77	.997 972	.20	.986 217	21.97	.013 783	28
33	.985 491	21.70	.997 959	.22	.987 532	21.92	.012 468	27
34	.986 789	21.63	.997 947	.20	.988 842	21.83	.011 158	26
		21.57		.20	' '	21.78		1000
35	8.988 083	21.52	9.997 935	.22	8.990 149	21.70	1.009 851	25
36	.989 374	21.43	.997 922	.20	.991 451	21.65	.008 549	24
37	.990 660	21.38	.997 910	.22	.992 750	21.58	.007 250	23
38	.991 943	21.32	.997 897	.20	·994 O45	21.53	.005 955	22
39	.993 222	21.25	.997 885	.22	∙995 337	21.45	.004 663	21
40	8.994 497	_	9.997 872	.20	8.996 624		1.003 376	20
41	.995 768	21.18	.997 860		.997 908	21.40	.002 092	19
42	.997 036	21.13	.997 847	.22	.999 188	21.33	.000 812	18
43	.998 299	21.05	.997 835	.20	9.000 465	21.28	0.999 535	17
44	.999 560	21.02	.997 822	.22	.001 738	21.22	.998 262	16
	9.000 816	20.93	9.997 809	.22	9.003 007	21.15	0.996 993	15
45	.002 069	20.88		.20		21.08		
46		20.82	·997 797	.22	.004 272	21.03	.995 728	14
47	.003 318	20.75	.997 784	.22	.005 534	20.97	.994 466	13
48	.004 563	20.70	.997 771	.22	.006 792	20.92	.993 208	12
49	.005 805	20.65	.997 758	.22	.008 047	20.85	.991 953	11
50	9.007 044	20.57	9.997 745	.22	9.009 298	20.80	0.990 702	10
51	.008 278		.997 732	.22	.010 546	20.73	.989 454	9
52	.009 510	20.53	.997 719	.22	.011 790	20.68	.988 210	8
53	.010 737	20.45	.997 706	.22	.013 031	20.62	.986 969	6
54	.011 962		.997 693	.22	.014 268	20.57	.985 732	6
55	9.013 182	20.33	9.997 680		9.015 502		0.984 498	5
56	.014 400	20.30	.997 667	.22	.016 732	20.50	.983 268	4
57	.015 613	20.22	.997 654	.22	.017 959	20.45	.982 041	3
58	.016 824	20.18	.997 641	.22	.019 183	20.40	.980 817	2
_	.018 031	20.12	.997 628	.22	.020 403	20.33	979 597	1
59	-	20.07		.23	9.021 620	20.28	0.978 380	6
<b>6</b>								
60	9.019 235		9.997 614		9.021 020		0.970 300	

24 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS.

				<b>6</b> 0				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.019 235	20.00	9.997 614	.22	9.021 620	20.23	0.978 380	60
I	.020 435	19.95	.997 601	.22	.022 834	20.17	.977 166	59
2	.021 632	19.88	.997 588	.23	.024 044	20.12	.975 956	58
3	.022 825	19.85	·997 574	.22	.025 251	20.07	·974 749	57
4	.024 016	19.78	.997 561	.23	.026 455	20.00	.973 545	56
5	9.025 203	19.72	9.997 547	.22	9.027 655 .028 852	19.95	0.972 345	55
6	.026 386	19.68	.997 534	.23	.030 046	19.90	.971 148 .969 954	54
7 8	.027 567 .028 744	19.62	.997 5 <b>2</b> 0 .997 507	.22	.031 237	19.85	.968 763	53 52
و	.029 918	19.57	.997 493	.23	.032 425	19.80	.967 575	51
10	9.031 089	19.52	9.997 480	.22	9.033 609	19.73	0.966 391	50
11	.032 257	19.47	.997 466	.23	.034 791	19.70	.965 209	49
12	.033 421	19.40	.997 452	.23	.035 969	19.63	.964 031	48
13	.034 582	19.35	-997 439	.22	.037 144	19.58	.962 856	47
14	.035 741	19.32 19.25	.997 425	.23	.038 316	19.53 19.48	.961 684	46
15	9.036 896	19.20	9.997 411	.23	9.039 485		0.960 515	45
16	.038 048	19.15	-997 397	.23	.040 651	19.43 19.37	·959 349	44
17	.039 197	19.08	.997 383	.23	.041 813	19.33	.958 187	43
18	.040 342	19.05	.997 369	.23	.042 973	19.28	.957 027	42
19	.041 485	19.00	.997 355	.23	.044 130	19.23	.955 870	4I
20	9.042 625	18.95	9.997 341	.23	9.045 284	19.17	0.954 716	40
2I 22	.043 762 .044 895	18.88	.997 327	.23	.046 434 .047 582	19.13	.953 566 .952 418	39 38
23	.046 026	18.85	.997 313 .997 299	.23	.048 727	19.08	.951 273	37
24	.047 154	18.80	.997 285	.23	.049 869	19.03	.950 131	36
25	9.048 279	18.75	9.997 271	.23	9.051 008	18.98	0.948 992	35
26	.049 400	18.68	.997 257	.23	.052 144	18.93	.947 856	34
27	.050 519	18.65	.997 242	.25	.053 277	18.88 18.83	.946 723	33
28	.051 635	18.60 18.57	.997 228	.23	.054 407	18.80	-945 593	32
29	.052 749	18.50	.997 214	.23	.055 535	18.73	.944 465	31
30	9.053 859	18.45	9.997 199	.23	9.056 659	18.70	0.943 341	30
31	.054 966	18.42	.997 185	.25	.057 781 .058 900	18.65	.942 219	29
32	.056 071	18.35	.997 170	.23		18.60	.941 100	28
33	.057 172	18.32	.997 156	.25	.060 016 .061 130	18.57	.939 984 .938 870	27 26
34	.058 271	18.27	.997 141	.23	_	18.50		
35	9.059 367 .060 460	18.22	9.997 127	.25	9.062 240	18.47	0.937 760	25
36 37	.061 551	18.18	.997 112	.23	.063 348 .064 453	18.42	.936 652 ·935 547	24 23
38	.062 639	18.13	.997 083	.25	.065 556	18.38	·935 547 ·934 444	22
39	.063 724	18.08	.997 068	.25	.066 655	18.32 18.28	933 345	21
40	9.064 806	18.03	9.997 053	.25	9.067 752		0.932 248	20
41	.065 885	17.98	.997 039	.23	.068 846	18.23 18.20	.931 154	19
42	.066 962	17.95 17.90	.997 024	.25	.069 938	18.15	.930 062	18
43	.068 036	17.85	.997 009	.25 .25	.071 027	18.10	.928 973	17
44	.069 107	17.82	.996 994	.25	.072 113	18.07	.927 887	16
45	9.070 176	17.77	9.996 979	.25	9.073 197	18.02	0.926 803	15
46	.071 242	17.73	.996 964	.25	.074 278	17.97	.925 722	14
47	.072 306	17.67	.996 949 .996 934	.25	.075 356 .076 432	17.93	.924 644	13
48 49	.073 366 .074 424	17.63	.996 934	.25	.077 505	17.88	.923 568	11
50	9.075 480	17.60	9.996 904	.25	9.078 576	17.85	0.921 424	10
5 <sup>1</sup>	.076 533	17.55	.996 889	.25	.079 644	17.80	.920 356	👸
52	.077 583	17.50	.996 874	.25	.080 710	17.77	.919 290	8
53	.078 631	17.47	.996 858	.27	.081 773	17.72	.918 227	7
54	.079 676	17.42 17.38	.996 843	.25	.082 833	17.67	.917 167	6
55	9.080 719	l	9.996 828	.25	9.083 891	17.60	0.916 109	5
56	.081 759	17.33 17.30	.996 812	.27	.084 947	17.55	.915 053	4
57	.082 797	17.25	.996 797	.25	.086 000	17.50	.914 000	3
58	.083 832	17.20	.996 782	.27	.087 050	17.47	.912 950	2
59	.084 864	17.17	.996 766	.25	.088 098	17.43	.911 902	I
60	9.085 894		9.996 751		9.089 144		0.910 856	_ •
1	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.,	M.
				020				

M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.085 894		9.996 751		9.089 144		0.910 856	- 6o
ı	.086 922	17.13	.996 735	.27	.090 187	17.38	.909 813	59
2	.087 947	17.08 17.05	.996 720	.25 .27	.091 228	17.35 17.30	.908 772	58
3	.088 970	17.00	.996 704	.27	.092 266	17.27	.907 734	57
4	.089 990	16.97	.996 688	.25	.093 302	17.23	.906 698	56
5 6	9.091 008	16.93	9.996 673 .996 657	.27	9.094 336	17.18	0.905 664 .904 633	55
7	.092 024 .093 037	16.88	.996 641	.27	.095 367 .096 395	17.13	.903 605	54 53
8	.094 047	16.83 16.82	.996 625	1.27	.097 422	17.12	.902 578	52
9	.095 056	16.77	.996 610	.25	.098 446	17.07	.901 554	51
10	9.096 062	16.72	9.996 594	.27	9.099 468	16.98	0.900 532	50
11	.097 065	16.68	.996 578	.27	.100 487	16.95	.899 513	49
12	.098 066	16.65	.996 562	.27	.101 504 .102 519	16.92	.898 496 .897 481	48
13	.099 065 .100 062	16.62	.996 546 .996 530	.27	.102 519	16.88	.896 468	47
15	9.101 056	16.57	9.996 514	.27	9.104 542	16.83	0.895 458	45
16	.102 048	16.53	.996 498	.27	.105 550	16.80	.894 450	44
17	.103 037	16.48	.996 482	.27	.106 556	16.77	.893 444	43
18	.104 025	16.47 16.42	.996 465	.28	.107 550	16.72 16.68	.892 441	42
19	.105 010	16.37	.996 449	.27	.108 560	16.65	.891 440	4I
20	9.105 992	16.35	9.996 433	.27	9.109 559	16.62	0.890 441	40
21	.106 973	16.30	.996 417	.28	.110 556	16.58	.889 444	39
22	.107 951 .108 927	16.27	.996 400 .996 384	.27	.111 551 .112 543	16.53	.888 449 .887 457	38
23	.109 901	16.23	.996 368	.27	.113 533	16.50	.886 467	37 36
25	9.110 873	16.20	9.996 351	.28	9.114 521	16.47	0.885 479	35
26	.111 842	16.15	.996 335	.27	.115 507	16.43	.884 493	34
27	.112 809	16.12 16.08	.996 318	.28	.116 491	16.40	.883 509	33
28	.113 774	16.05	.996 302	.27	.117 472	16.35 16.33	.882 528	32
29	.114 737	16.02	.996 285	.27	.118 452	16.28	.881 548	31
30	9.115 698	15.97	9.996 269	.28	9.119 429	16.25	0.880 571	30
31	.116 656	15.95	.996 252	.28	.120 404	16.22	.879 596 .878 623	29
32	.117 613	15.90	.996 235 .996 219	.27	.121 377 .122 348	16.18	.877 652	28 27
34	.119 519	15.87	.996 202	.28	.123 317	16.15	.876 683	26
35	9.120 469	15.83	9.996 185	.28	9.124 284	16.12	0.875 716	25
36	.121 417	15.80	.996 168	.28 .28	.125 249	16.08 16.03	.874 751	24
37	122 362	15.75 15.73	.996 151	.28	.126 211	16.03	.873 789	23
38	.123 306	15.70	.996 134	.28	.127 172	15.97	.872 828	22
39	.124 248	15.65	.996 117	.28	.128 130	15.95	.871 870	21
40	9.125 187	15.63	9.996 100	.28	9.129 087	15.90	0.870 913 .869 959	20
41 42	.126 125 .127 060	15.58	.996 083 .996 066	.28	.130 041 .130 994	15.88	.869 006	19 18
43	.127 993	15.55	.996 049	.28	.131 944	15.83	.868 056	17
44	.128 925	15.53 15.48	.996 032	.28	.132 893	15.82	.867 107	16
45	9.129 854		9.996 015	.28	9.133 839	15.77	0.866 161	15
46	.130 781	15.45 15.42	.995 998	.30	.134 784	15.75 15.70	.865 216	14
47	.131 706	15.40	.995 980	.28	.135 726	15.68	.864 274	13
48	.132 630 .133 551	15.35	.995 963 .995 946	.28	.136 667 .137 605	15.63	.863 333 .862 395	12 11
49		15.32		.30	9.138 542	15.62	0.861 458	10
50 51	9.134 470 .135 387	15.28	9.995 928	.28	.139 476	15.57	.860 524	10
52	.136 303	15.27	.995 894	.28	.140 409	15.55	.859 591	8
53	.137 216	15.22 15.20	995 876	.30	.141 340	15.52 15.48	.858 660	7
54	.138 128	15.15	.995 859	.30	.142 269	15.45	.857 731	6
55	9.139 037	15.12	9.995 841	.30	9.143 196	15.42	0.856 804	5
56	.139 944	15.10	.995 823	.28	.144 121	15.38	.855 879	4
57 58	.140 850 .141 754	15.07	995 806	.30	.145 044 .145 966	15.37	.854 956 .854 034	3 2
59	.142 655	15.02	.995 700	.28	.145 900	15.32	.853 115	ī
60	9.143 555	15.00	9.995 753	.30	9.147 803	15.30	0.852 197	
1		D. 1".	8in.	D. 1".	Oot.	D. 1".	Tan.	<b>M</b> .
l	Cos.	D. 1".	l om·	י"ו יען	l Ogti	<i>ν</i> , 1",	140.	<b>A</b> .

26 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS.

º

8°										
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.			
0	9.143 555	14.97	9.995 753	.30	9.147 803	15.25	0.852 197	60		
I	.144 453	14.93	∙995 735	.30	.148 718	15.23	.851 282	59		
2	.145 349	14.90	.995 717	.30	.149 632	15.20	.850 368	58		
3	.146 243	14.88	.995 699	.30	.150 544	15.17	.849 456	57		
4	.147 136	14.83	.995 681	.28	.151 454	15.15	.848 546	56		
5	9.148 026	14.82	9.995 664	.30	9.152 363	15.10	0.847 637	55		
6	.148 915	14.78	.995 646	.30	.153 269	15.08	.846 731	54		
7	.149 802	14.73	.995 628	.30	.154 174	15.05	.845 826	53		
8	.150 686	14.72	.995 610	.32	.155 077	15.02	.844 923	52		
9	.151 569	14.70	.995 591	.30	155 978	14.98	.844 022	51		
10	9.152 451	14.65	9.995 573	.30	9.156 877	14.97	0.843 123	50		
11	.153 330	14.63	∙995 555	.30	·157 775	14.93	.842 225	49		
12	.154 208	14.58	-995 537	.30	.158 671	14.90	.841 329	48		
13	.155 083	14.57	.995 519	.30	.159 565	14.87	.840 435	47		
14	.155 957	14.55	.995 501	.32	.160 457	14.83	.839 543	46		
15	9.156830	14.50	9.995 482	.30	9.161 347	14.82	0.838 653	45		
16	.157 700	14.48	.995 464	.30	.162 236	14.78	.837 764	44		
17	.158 569	14.43	.995 446	.32	.163 123	14.75	.836 877	43		
18	.159 435	14.43	.995 427	.30	.164 008	14.73	.835 992	42		
19	.160 301	14.38	.995 409	.32	.164 892	14.70	.835 108	41		
20	9.161 164		9.995 390	.30	9.165 774	14.67	0.834 226	40		
21	.162 025	14.35	.995 372		.166 654	14.63	.833 346	39		
22	.162 885	14.33	-995 353	.32	.167 532	14.62	.832 468	38		
23	.163 743	14.30 14.28	-995 334	.32	.168 409	14.58	.831 591	37		
24	.164 600	14.23	.995 316	.30	.169 284	14.55	.830 716	36		
25	9.165 454		9.995 297		9.170 157		0.829 843	35		
26	.166 307	14.22	.995 278	.32	.171 029	14.53	.828 971	34		
27	.167 159	14.20	.995 260	.30	.171 899	14.50	.828 101	33		
28	.168 008	14.15	.995 241	.32	.172 767	14.47	.827 233	32		
29	.168 856	14.13	.995 222	.32	.173 634	14.45	.826 366	31		
30	9.169 702	14.10	9.995 203	.32	9.174 499	14.42	0.825 501	30		
31	.170 547	14.08	.995 184	.32	.175 362	14.38	.824 638	29		
32	.171 389	14.03	.995 165	.32	.176 224	14.37	.823 776	28		
33	.172 230	14.02	.995 146	.32	.177 084	14.33	.822 916	27		
34	.173 070	14.00	.995 127	.32	.177 942	14.30 14.28	.822 058	26		
35	9.173 908	13.97	9.995 108	.32	9.178 799	-	0.821 201	25		
36	.174 744	13.93	.995 089	.32	.179 655	14.27	.820 345	24		
37	.175 578	13.90	.995 070	.32	.180 508	14.22	.819 492	23		
38	.176 411	13.88	.995 051	.32	.181 360	14.20	.818 640	22		
39	.177 242	13.85	.995 032	.32	.182 211	14.18	.817 789	21		
40	9.178 072	13.83	9.995 013	.32	9.183 059	14.13	0.816 941	20		
41	.178 900	13.80	.994 993	-33	.183 907	14.13	.816 093	19		
42	.179 726	13.77	994 974	.32	.184 752	14.08	.815 248	18		
43	.180 551	13.75	994 955	.32	.185 597	14.08	.814 403	17		
44	.181 374	13.72	.994 935	.33	.186 439	14.03	.813 561	16		
45	9.182 196	13.70	9.994 916	.32	9.187 280	14.02	0.812 720	15		
46	.183 016	13.67	.994 896	•33	.188 120	14.00	.811 880	14		
47	.183 834	13.63	.994 877	.32	.188 958	13.97	.811 042	13		
48	.184 651	13.62	.994 857	-33	.189 794	13.93	.810 206	12		
49	.185 466	13.58	.994 838	.32	.190 629	13.92	.809 371	11		
50	9.186 280	13.57	9.994 818	-33	9.191 462	13.88	0.808 538	10		
51	.187 092	13.53	.994 798	-33	.192 294	13.87	.807 706			
52	.187 903	13.52	.994 779	.32	.193 124	13.83	.806 876	8		
53	.188 712	13.48	994 759	-33	.193 953	13.82	.806 047			
54	.189 519	13.45	.994 739	.33	.194 780	13.78	.805 220	7		
55	9.190 325	13.43	9.994 720	.32	9.195 606	13.77	0.804 394	5		
56	.191 130	13.42	.994 700	-33	.196 430	13.73	.803 570	4		
57	.191 933	13.38	.994 680	-33	.197 253	13.72	.802 747	3		
58	.192 734	13.35	.994 660	-33	.198 074	13.68	.801 926	2		
59	.193 534	13.33	.994 640	∙33	.198 894	13.67	.801 106	ī		
60		13.30	9.994 620	-33	1	13.65	0.800 287	0		
•	9.194 332		9.994 020	<b>ا</b> ا	9.199 713		0.000 20/			
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.		

				_ <del>9</del> 0				
K.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.194 332	13.28	9.994 620	.22	9.199 713	13.60	0.800 287	60
I	.195 129	13.27	.994 600	·33	.200 529	13.60	.799 471	59
2	.195 925	13.23	.994 580	.33	.201 345	13.57	.798 655	58
] 3	.196 719	13.20	.994 560	-33	.202 159	13.53	.797 841	57
4	.197 511	13.18	.994 540	-35	.202 971	13.52	.797 029	56
5 6	9.198 302	13.15	9.994 519	-33	9.203 782	13.50	0.796 218	55
	.199 091	13.13	-994 499	.33	.204 592	13.47	.795 408	54
7	.199 879	13.12	•994 479	.33	.205 400	13.45	.794 600	53
8	.200 666	13.08	.994 459	-35	.206 207	13.43	·793 793	52
9	.201 451	13.05	.994 438	.33	.207 013	13.40	.792 987	51
10	9.202 234	13.05	9.994 418	-33	9.207 817	13.37	0.792 183	50
11	.203 017	13.00	.994 398	-35	.208 619	13.35	.791 381	49
12	.203 797	13.00	·994 377	.33	.209 420	13.33	.790 580 .789 780	48
13	.204 577	12.95	•994 357	.35	.210 220 .211 018	13.30	.788 982	47
14	.205 354	12.95	.994 336	-33		13.28		46
15	9.206 131	12.92	9.994 316	-35	9.211 815	13.27	0.788 185	45
16	.206 906	12.88	.994 295	-35	.212 611	13.23	.787 389	44
17	.207 679 .208 452	12.88	.994 274	.33	.213 405	13.22	.786 595 .785 802	43
18	.209 222	12.83	.994 254	-35	.214 198 .214 989	13.18	.785 011	42
19		12.83	.994 233	-35		13.18	1	41
20	9.209 992	12.80	9.994 212	-35	9.215 780	13.13	0.784 220	40
21 22	.210 760	12.77	.994 191	.33	.216 568	13.13	.783 432 .782 644	39
23	.211 526 .212 291	12.75	.994 171 .994 150	.35	.217 356 .218 142	13.10	.781 858	38
24	.213 055	12.73	.994 130	-35	.218 926	13.07	.781 074	37 36
1 ' 1		12.72		-35	-	13.07	0.780 290	-
25 26	9.213 818	12.68	9.994 108 .994 087	.35	9.219 710	13.03	.779 508	35
27	.214 579 .215 338	12.65	.994 067	-35	.220 492 .221 272	13.00	.778 728	34 33
28	.216 097	12.65	.994 045	·35	.222 052	13.00	.777 948	32
29	.216 854	12.62	.994 024	·35	.222 830	12.97	.777 170	31
30	9.217 609	12.58	9.994 003	∙35	9.223 607	12.95	0.776 393	30
31	.218 363	12.57	.993 982	<b>  ⋅35</b>	.224 382	12.92	.775 618	29
32	.219 116	12.55	.993 960	-37	.225 156	12.90	.774 844	28
33	.219 868	12.53	.993 939	.35	.225 929	12.88	.774 071	27
34	.220 618	12.50	.993 918	.35	.226 700	12.85 12.85	.773 300	26
35	9.221 367	12.48	9.993 897	∙35	9.227 471		0.772 529	25
36	.222 115	12.47	.993 875	-37	.228 239	12.80	.771 761	24
37	.222 861	12.43	.993 854	.35	.229 007	12.80	.770 993	23
38	.223 606	12.42 12.38	.993 832	.37	.229 773	12.77	.770 227	22
39	.224 349	12.38	.993 811	-35	.230 539	12.77 12.72	.769 461	21
40	9.225 092	- 1	9.993 789	-37	9.231 302		0.768 698	20
41	.225 833	12.35	.993 768	.35	.232 065	12.72 12.68	.767 935	19
42	.226 573	12.33	.993 746	37	.232 826	12.67	.767 174	18
43	.227 311	12.28	.993 725	·35 ·37	.233 586	12.65	.766 414	17
44	.228 048	12.27	.993 703	.37	·234 345	12.63	.765 655	16
45	9.228 784	12.23	9.993 681		9.235 103	12.60	0.764 897	15
46	.229 518	12.23	.993 660	.35 .37	.235 859	12.58	.764 141	14
47	.230 252	12.20	.993 638	.37	.236 614	12.57	.763 386	13
48	.230 984	12.18	.993 616	.37	.237 368	12.53	.762 632	12
49	.231 715	12.15	-993 594	37	.238 120	12.53	.761 880	11
50	9.232 444	12.13	9.993 572	-37	9.238 872	12.50	0.761 128	10
51	.233 172	12.12	.993 550	37	.239 622	12.48	.760 378	9
52	.233 899	12.10	.993 528	37	.240 371	12.45	.759 629	8
53	.234 625	12.07	.993 506	37	.241 118	12.45	.758 882	7
54	.235 349	12.07	.993 484	37	.241 865	12.42	.758 135	6
55	9.236 073	12.03	9.993 462	-37	9.242 610	12.40	0.757 390	5
56	.236 795	12.00	.993 440	37	·243 354	12.38	.756 646	4
57	.237 515	12.00	.993 418	.37	.244 097	12.37	.755 903	3
58	.238 235	11.97	.993 396	-37	.244 839	12.33	.755 161	2 I
59	.238 953	11.95	.993 374	.38	·245 579	12.33	.754 421	
60	9.239 670		9.993 351		9.246 319		0.753 681	
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

				10~				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.239 670		9.993 351		9.246 319		0.753 681	60
1 1	.240 386	11.93	.993 329	-37	.247 057	12.30	-752 943	59
2	.241 101	11.92	.993 307	-37	.247 794	12.28	.752 206	58
3	.241 814	11.88	.993 284	.38	.248 530	12.27	-751 470	57
4	.242 526	11.87	.993 262	-37	.249 264	12.23	.750 736	56
	9.243 237	11.85	9.993 240	-37	9.249 998	12.23	0.750 002	55
5 6	.243 947	11.83	.993 217	.38	.250 730	12.20	.749 270	54
7	.244 656	11.82	.993 195	-37	.251 461	12.18	.748 539	53
l á l	.245 363	11.78	.993 172	.38	.252 191	12.17	-747 809	52
ا و ا	.246 069	11.77	.993 149	.38	.252 920	12.15	.747 080	51
		11.77		-37		12.13		
10	9.246 775	11.72	9.993 127	.38	9.253 648	12.10	0.746 352	50
11	.247 478	11.72	.993 104	.38	·254 374	12,10	.745 626	49
12	.248 181	11.70	.993 081		.255 100	12.07	.744 900	48
13	.248 883	11.67	.993 059	·37 ·38	.255 824	12.05	.744 176	47
14	.249 583	11.65	.993 036	.38	.256 547	12.03	-743 453	46
15	9.250 282	11.63	9.993 013	.38	9.257 269	12.02	0.742 731	45
16	.250 980	11.62	.992 990	.30	.257 990	the same of the sa	.742 010	44
17	.251 677	11.60	.992 967	.38	.258 710	12.00	.741 290	43
18	.252 373		.992 944	.38	.259 429	11.98	.740 571	42
19	.253 067	11.57	.992 921	.38	.260 146	11.95	-739 854	41
20	9.253 761	11.57	9.992 898	.38	9.260 863	11.95	0.739 137	40
21	.254 453	11.53	.992 875	.38	.261 578	11.92	.738 422	39
22	.255 144	11.52	.992 852	-38	.262 292	11.90	-737 708	38
23	.255 834	11.50	.992 829	.38	.263 005	11.88	.736 995	37
24	.256 523	11.48	.992 806	∣ .38	.263 717	11.87	.736 283	36
	1	11.47		.38		11.85		
25	9.257 211	11.45	9.992 783	.40	9.264 428	11.83	0.735 572	35
26	.257 898	11.42	.992 759	.38	.265 138	11.82	.734 862	34
27	.258 583	11.42	.992 736	.38	.265 847	11.80	·734 153	33
28	.259 268	11.38	.992 713	.38	.266 555	11.77	-733 445	32
29	.259 951	11.37	.992 690	.40	.267 261	11.77	-732 739	31
30	9.260 633	11.35	9.992 666	.38	9.267 967	11.73	0.732 033	30
31	.261 314	11.33	.992 643	.40	.268 671		.731 329	29
32	.261 994	11.32	.992 619	.38	.269 375	11.73	.730 625	28
33	.262 673	11.30	.992 596	.40	.270 077	11.70	.729 923	27
34	.263 351	11.27	.992 572	.38	.270 779	11.67	.729 221	26
35	9.264 027		9.992 549		9.271 479		0.728 521	25
36	.264 703	11.27	.992 525	.40	.272 178	11.65	.727 822	24
37	.265 377	11.23	.992 501	.40	.272 876	11.63	.727 124	23
38	.266 051	11.23	.992 478	.38	.273 573	11.62	.726 427	22
39	.266 723	11.20	.992 454	.40	.274 269	11.60	.725 731	21
40	9.267 395	11.20	9.992 430	.40	9.274 964	11.58	0.725 036	20
41	.268 065	11.17	.992 406	.40	.275 658	11.57	.724 342	19
42	.268 734	11.15	.992 382	.40	.276 351	11.55	.723 649	18
43	.269 402	11.13	.992 359	.38	.277 043	11.53	.722 957	17
44	.270 069	II.12	.992 335	40	.277 734	11.52	.722 266	16
		11.10		.40		11.50	The second second	
45	9.270 735	11.08	9.992 311	.40	9.278.424	11.48	0.721 576	15
46	.271 400	11.07	.992 287	.40	.279 113	11.47		14
47	.272 064	11.03	.992 263	.40	.279 801	11.45	.720 199	13
48	.272 726	11.03	.992 239	.42	.280 488	11.43	.719 512 .718 826	12
49	.273 388	11.02	.992 214	.40	.281 174	11.40		11
50	9.274 049	10.98	9.992 190	.40	9.281 858	11.40	0.718 142	10
51	.274 708	10.98	.992 166	.40	.282 542	11.38	.717 458	. 9
52	.275 367	10.97	.992 142	.40	.283 225	11.37	.716 775	8
53	.276 025	10.93	.992 118	.42	.283 907	11.35	.716 093	7
54	.276 681	10.93	.992 093	40	.284 588	11.33	.715 412	
55	9.277 337		9.992 069		9.285 268		0.714 732	5
56	.277 991	10.90	.992 044	.42	.285 947	11.32	.714 053	4
57	.278 645	10.90	.992 020	.40	.286 624	11.28	.713 376	5 4 3 2
58	.279 297	10.85	.991 996	.40	.287 301	11.27	.712 699	2
59	.279 948	10.85	.991 971	.42	.287 977		.712 023	1
бо	9.280 599	10.05	9.991 947	.40	9.288 652	11.25	0.711 348	0
		D 1"		D 1"		D. 1".		M.
	Cos.	D. 1".	Sin.	D. 1".	Cot.	י"ו וע	Tan.	<b>.</b>

110										
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Oot.			
-0	9.280 599		9.991 947		9.288 652	** **	0.711 348	60		
1	.281 248	10.82 10.82	.991 922	.42	.289 326	11.23	.710 674	59		
2	.281 897	۱ ـ	.991 897	.42	.289 999	11.20	.710 001	58		
3	.282 544	10.78	.991 873	.40	.290 671	11.18	.709 329	57		
4	.283 190	10.77	.991 848	.42	.291 342	11.18	.708 658	56		
5	9.283 836	10.77	9.991 823	.42	9.292 013	100000000000000000000000000000000000000	0.707 987	55		
ő	.284 480	10.73	.991 799	.40	.292 682	11.15	.707 318	54		
7	.285 124	10.73	.991 774	.42	.293 350	11.13	.706 650	53		
8	.285 766	10.70	.991 749	.42	.294 017	11.12	.705 983	52		
9	.286 408	10.70	.991 724	.42	.294 684	11,12	.705 316	51		
10	9.287 048	10.67	9.991 699	-42	9.295 349	11.08	0.704 651	50		
11	.287 688	10.67	.991 674	.42	.296 013	11.07	.703 987	49		
12	.288 326	10.63	.991 649	.42	.296 677	11.07	.703 323	48		
13	.288 964	10.63	.991 624	.42	.297 339	11.03	.702 661	47		
14	.289 600	10.60	.991 599	42	.298 001	11.03	.701 999	46		
	9.290 236	10.60		.42	9.298 662	11.02	0.701 338	45		
15 16	.290 870	10.57	9.991 574 .991 549	.42	.299 322	00.11	.700 678	44		
		10.57		42	.299 980	10.97	.700 020			
17 18	.291 504 .292 137	10.55	.991 524 .991 498	-43	.300 638	10.97	.699 362	43 42		
19	.292 768	10.52	.991 498	.42	.301 295	10.95	.698 705	41		
-		10.52		.42		10.93				
20	9.293 399	10.50	9.991 448	.43	9.301 951	10.93	0.698 049	40		
21	.294 029	10.48	.991 422	.42	.302 607	10.90	.697 393	39		
22	.294 658	10.47	.991 397	.42	.303 261	10.88	.696 739	38		
23	.295 286	10.45	.991 372	43	.303 914	10.88	.696 086	37		
24	.295 913	10.43	.991 346	.42	.304 567	10.85	.695 433	36		
25	9.296 539	10.42	9.991 321	.43	9.305 218	10.85	0.694 782	35		
26	.297 164	10.40	.991 295	.42	.305 869	10.83	.694 131	34		
27	.297 788	10.40	.991 270	.43	.306 519	10.82	.693 481	33		
28	.298 412	10.37	.991 244	.43	.307 168	10.80	.692 832	32		
29.	.299 034	10.35	.991 218	.42	.307 816	10.78	.692 184	31		
30	9.299 655		9.991 193		9.308 463	10.77	0.691 537	30		
31	.300 276	10.35 10.32	.991 167	-43	.309 109	10.75	.690 891	29		
32	.300 895	10.32	.991 141	.43	.309 754	10.75	.690 246	28		
33	.301 514	10.30	.991 115	-43 -42	.310 399	10.72	.689 601	27		
34	.302 1 32	10.35	.991 090	43	.311 042	10.72	.688 958	26		
35	9.302 748	•	9.991 064		9.311 685	- C	0.688 315	25		
36	.303 364	10.27	.991 038	-43	.312 327	10.70	.687 673	24		
37	.303 979	10.25	.991 012	.43	.312 968	10.68	.687 032	23		
38	.304 593	10.23	.990 986	-43	.313 608	10.65	.686 392	22		
39	.305 207	10.23 10.20	.990 960	.43	.314 247	10.63	.685 753	21		
40	9.305 819		9.990 934	.43	9.314 885		0.685 115	20		
41	.306 430	10.18	.990 908	43	.315 523	10.63	.684 477	19		
42	.307 041	10.18	.990 882	43	.316 159	10.60	.683 841	18		
43	.307 650	10.15	.990 855	-45	.316 795	10.60	.683 205	17		
44	.308 259	10.15	.990 829	-43	.317 430	10.58	.682 570	16		
45	9.308 867	10.13	9.990 803	-43	9.318 064	10.57	0.681 936	15		
45 46	.309 474	10.12	.990 777	-43	.318 697	10.55	.681 303	14		
47	.310 080	10.10	.990 750	.45	.319 330	10.55	.680 670	13		
48	.310 685	10.08	.990 724	43	.319 961	10.52	.680 039	12		
49	.311 289	10.07	.990 697	45	.320 592	10.52	.679 408	11		
		10.07		-43		10.50	0.678 778	10		
50	9.311 893	10.03	9.990 671	-43	9.321 222 .321 851	10.48	678 140	_		
51	312 495	10.03	990 045	.45		10.47	.678 149	8		
52	.313 097	10.02	.990 618	.45	.322 479	10.45	.677 521 .676 894			
53		9.98	.990 591	.43	.323 106	10.45		7 6		
54	.314 297	10.00	.990 565	-45	.323 733	10.42	.676 267	l		
55	9.314 897	9.97	9.990 538	-45	9.324 358	10.42	0.675 642	5		
56	.315 495	9.95	.990 511	43	.324 983	10.40	.675 017	4		
57	.316 092	9.95	.990 485	45	.325 607	10.40	.674 393	3		
58	.316 689	9.92	.990 458	45	.326 231	10.37	.673 769	2		
59	.317 284	9.92	.990 431	-45	.326 853	10.37	.673 147	1		
60	9.317 879	J-J-	9.990 404	"	9.327 475	-5,	0.672 525	0		
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.		
	0081	1 201 201	l <sub>Pitt</sub> ,	1201 201	0061	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4441	142.		

				12°				
M.	Sin.	D. 1".	Cos.	D 1".	Tan.	D. 1".	Cot.	
0	9.317 879		9.990 404		9.327 475		0.672 525	60
1	.318 473	9.90 9.88	.990 378	-43	.328 095	10.33 10.33	.671 905	59
2	.319 066	9.87	.990 351	-45	.328 715	10.32	.671 285	58
3	.319 658	9.85	.990 324	·45 ·45	.329 334	10.32	.670 666	57
4	.320 249	9.85	.990 297	-45	•329 953	10.28	.670 047	56
5	9.320 840	9.83	9.990 270	-45	9.330 570	10.28	0.669 430	55
6	.321 430	9.82	.990 243	47	.331 187	10.27	.668 813	54
7 8	.322 019	<b>9.80</b>	.990 215	-45	.331 803	10.25	.668 197 .667 582	53
- 1	.322 607	9.78	.990 188 .990 161	-45	.332 418 .333 033	10.25	.666 967	52 51
9 10	.323 194	9.77		-45	9.333 646	10.22	0.666 354	50
11	9.323 780 .324 366	- 9-77	9.990 134 .990 107	-45	·334 259	10.22	.665 741	49
12	.324 950	9.73	.990 079	-47	.334 871	10.20	.665 129	48
13	.325 534	9.73	.990 052	-45	.335 482	10.18	.664 518	47
14	.326 117	9.72	.990 025	-45	.336 093	10.15	.663 907	46
15	9.326 700	9.72 9.68	9.989 997	-47	9.336 702		0.663 298	45
16	.327 281	9.68	.989 970	-45	.337 311	10.15	.662 689	44
17	.327 862	9.67	.989 942	-47 -45	.337 919	10.13	.662 081	43
18	.328 442	9.65	.989 915	-47	.338 527	10.10	.661 473	42
19	.329 021	9.63	.989 887	-45	.339 133	10.10	.660 867	4 <sup>I</sup>
20	9.329 599	9.62	9.989 860	-47	9.339 739	10.08	0.660 261	40
2I 22	.330 176	9.62	.989 832 .989 804	-47	.340 344	10.07	.659 656 .659 052	39 38
23	.330 753 .331 329	9.60	.989 777	-45	.340 948 .341 552	10.07	.658 448	37
24	•331 903	9.57	.989 749	-47	.342 155	10.05	.657 845	36
25	9.332 478	9.58	9.989 721	-47	9.342 757	10.03	0.657 243	35
26	.333 051	9.55	.989 693	47	.343 358	10.02	.656 642	34
27	.333 624	9.55	.989 665	47	.343 958	10.00 10.00	.656 042	33
28	.334 195	9.52 9.53	.989 637	-47	.344 558	9.98	.655 442	32
29	-334 767	9.50	.989 610	-45 -47	-345 <sup>1</sup> 57	9.97	.654 843	31
30	9.335 337	9.48	9.989 582	.48	, 9-345 755	9.97	0.654 245	30
31	.335 906	9.48	.989 553	-47	-346 353	9.93	.653 647	29
32 33	.336 475 .337 043	9-47	.989 525 .989 497	-47	.346 949	9.93	.653 051 .652 455	28 27
34	.337 610	9.45	.989 469	-47	•347 545 •348 141	9.93	.651 859	26
35	9.338 176	9-43	9.989 441	-47	9.348 735	9.90	0.651 265	25
35 36	.338 742	9.43	.989 413	-47	.349 329	9.90	.650 671	24
37	.339 307	9.42	.989 385	-47	.349 922	9.88	.650 078	23
38	.339 871	9.40 9.38	.989 356	-48	.350 514	9.87 9.87	.649 486	22
39	.340 434	9.30 9.37	.989 328	-47 -47	.351 106	9.85	.648 894	21
40	9.340 996	9.37	9.989 300	48	9.351 697	9.83	0.648 303	20
41	.341 558	9.35	.989 271	-47	.352 287	9.82	.647 713	19
42	.342 119	9.33	.989 243	48	.352 876	9.82	.647 124	18
43	.342 679	9.33	.989 214 .989 186		.353 465	9.80	645 047	17 16
44	.343 239	9.30	• -	-47 -48	.354 053 9.354 640	9.78	.645 947 0.645 360	15
45 46	9·343 797 •344 355	9.30	9.989 157 .989 128	-48	.355 227	9.78	.644 773	15
47	·344 912	9.28	.989 100	47	.355 227	9.77	.644 187	13
48	.345 469	9.28	.989 071	-48	.356 398	9.75	.643 602	12
49	.346 024	9.25 9.25	.989 042	.48	.356 982	9.73	.643 018	11
50	9.346 579		9.989 014	-47 -48	9.357 566	9.73	0.642 434	10
51	·347 I34	9.25 9.22	.988 985	-48 -48	.358 149	9.72 9.70	.641 851	9
52	347 687	9.22	.988 956	.48	.358 731	9.70	.641 269	
53	.348 240	9.20	.988 927	.48	.359 313	9.67	.640 687	7 6
54	.348 792	9.18	.988 898	.48	.359 893	9.68	.640 107	
55	9.349 343	9.17	9.988 869 .988 840	.48	9.360 474	9.65	0.639 526 .638 947	5
56 57	.349 893 .350 443	9.17	.988 811	-48	.361 053 .361 632	9.65	.638 368	4 3
58	.350 992	9.15	.988 782	.48	.362 210	9.63	.637 790	2
59	.351 540	9.13	.988 753	-48	.362 787	9.62	.637 213	1
60	9.352 088	9.13	9.988 724	.48	9.363 364	9.62	0.636 636	0
	Cos.	D. 1".	Sin.	D. 1".	Oot.	D. 1".	Tan.	M.
				<u> </u>	, 550			

			<del> </del>	130	<del> </del>	1 4 00	1	1
<u> K.</u>	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.352 088	9.12	9.988 724	-48	9.363 364	9.60	0.636 636	60
I	.352 635	9.10	.988 695	.48	.363 940	9.58	.636 060	59
2	.353 181	9.08	.988 666	.50	.364 515	9.58	.635 485	58
3	-353 726	9.08	.988 636 .988 607	.48	.365 090	9.57	.634 910	57
4	.354 271	9.07		-48	.365 664	9.55	.634 336	56
5 6	9.354 815	9.05	9.988 578	.50	9.366 237	9.55	0.633 763	55
	-355 358	9.05	.988 548 .988 519	.48	.366 810	9.53	.633 190	54
7 8	.355 901 .356 443	9.03	.988 489	.50	.367 382 .367 953	9.52	.632 618	53 52
9	.356 984	9.02	.988 460	.48	.368 524	9.52	.631 476	51
10	9.357 524	9.00	9.988 430	.50	9.369 094	9.50	0.630 906	50
11	.358 064	9.00	.988 401	.48	369 663	9.48	.630 337	49
12	.358 603	8.98	.988 371	.50	.370 232	9.48	.629 768	48
13	.359 141	8.97	.988 342	.48	.370 799	9.45	.629 201	47
14	.359 678	8.95	.988 312	.50	.371 367	9.47	.628 633	46
15	9.360 215	8.95	9.988 282	.50	9.371 933	9.43	0.628 067	45
16	.360 752	8.95	.988 252	.50	·372 499	9-43	.627 501	44
17	.361 287	8.92	.988 223	.48	.373 064	9.42	.626 936	43
18	.361 822	8.92 8.90	.988 193	.50	.373 629	9.42 9.40	.626 371	42
19	.362 356	8.88	.988 163	.50	-374 193	9.38	.625 807	41
20	9.362 889	8.88	9.988 133	.50	9.374 756	9.38	0.625 244	40
21	.363 422	8.87	.988 103	.50	.375 319	9.30	.624 681	39
22	-363 954	8.85	.988 073	.50	.375 881	9.35	.624 119	38
23	.364 485	8.85	.988 043	.50	.376 442	9.35	.623 558	37
24	.365 016	8.83	.988 013	.50	.377 003	9.33	.622 997	36
25	9.365 546	8.82	9.987 983	.50	9.377 563	9.32	0.622 437	35
26	.366 075	8.82	.987 953	.52	.378 122	9.32	.621 878	34
27 28	.366 604	8.78	.987 922 .987 892	.50	.378 681	9.30	.621 319	33
29	.367 131	8.8o	.987 862	.50	.379 239	9.30	.620 761	32
_	9.368 185	8.77		.50	•379 797	9.28	1100 TO 100 TO 1	31
30 31	.368 711	8.77	9.987 832 .987 801	.52	9.380 354 .380 910	9.27	0.619 646 .619 090	30
32	.369 236	8.75	.987 771	.50	.381 466	9.27	.618 534	29
33	.369 761	8.75	.987 740	.52	.382 020	9.23	.617 980	27
34	.370 285	8.73	.987 7io	.50	.382 575	9.25	.617 425	26
35	9.370 808	8.72	9.987 679	.52	9.383 129	9.23	0.616 871	25
36	.371 330	8.70	.987 649	.50	.383 682	9.22	.616 318	24
37	.371 852	8.70 8.68	.987 618	.52	.384 234	9.20	.615 766	23
38	·372 373	8.68	.987 588	.50 .52	.384 786	9.20 9.18	.615 214	22
39	.372 894	8.67	.987 557	.52	•3 <sup>8</sup> 5 337	9.18	.614 663	21
40	9.373 414	8.65	9.987 526	.50	9.385 888	9.17	0.614 112	20
41	•373 933	8.65	.987 496	.52	.386 438	9.15	.613 562	19
42	·374 452	8.63	.987 465	.52	.386 987	9.15	.613 013	18
43	.374 970	8.62	.987 434	.52	.387 536 .388 084	9.13	.612 464	17
44	.375 487	8.6o	.987 403	.52		9.12	.611 916	16
45	9.376 003	8.6o	9.987 372	.52	9.388 631	9.12	0.611 369	15
46	.376 519 .377 035	8.60	.987 341 .987 310	.52	.389 178 .389 724	9.10	.610 822	14
47 48	·377 549	8.57	.987 279	,52	.390 270	9.10	.610 276 .609 730	13
49	.378 063	8.57	.987 248	.52	.390 815	9.08	.609 185	11
50	9.378 577	8.57	9.987 217	.52	9.391 360	9.08	0.608 640	10
51	.379 089	8.53	.987 186	.52	.391 903	9.05	.608 097	1 40
52	.379 601	8.53	.987 155	.52	.392 447	9.07	.607 553	8
53	.380 113	8.53 8.52	.987 124	.52	.392 989	9.03	.607 011	7
54	.380 624	8.50	.987 092	-53	.393 531	9.03	.606 469	6
55	9.381 134	8.48	9.987 061	.52	9.394 073	9.03	0.605 927	5
56	.381 643	8.48	.987 030	.52	.394 614	9.02	.605 386	4
57	.382 152	8.48	.986 998	·53	·395 154	9.00 9.00	.604 846	3
58	.382 661	8.45	.986 967	.52	.395 694	8.98	.604 306	2
59	.383 168	8.45	.986 936	.53	.396 233	8.97	.603 767	1
60	9.383 675		9.986 904		9.396 771	"	0.603 229	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
<u> </u>						<u> </u>		

				<b>14</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.383 675	8.45	9.986 904	.52	9.396 771	8.97	0.603 229	60
1	.384 182	8.42	.986 873	.53	.397 309	8.95	.602 691	59
2	.384 687	8.42	.986 841	•53	.397 846	8.95	.602 154	58
3	.385 192	8.42	.986 809 .986 778	.52	.398 383 .398 919	8.93	.601 617 .601 081	57
4	.385 697	8.40		-53		8.93		56
5 6	9.386 201 .386 704	8.38	9.986 746 .986 714	-53	9.399 455	8.92	0.600 545 .600 010	55
7	.387 207	8.38	.986 683	.52	.399 990 .400 524	8.90	.599 476	54 53
. 8	.387 709	8.37	.986 651	-53	.401 058	8.90	.598 942	52
9	.388 210	8.35	.986 619	.53	.401 591	8.88 8.88	.598 409	51
10	9.388 711	8.35	9.986 587	-53	9.402 124	ŀ	0.597 876	50
11	.389 211	8.33 8.33	.986 555	-53	.402 656	8.8 <sub>7</sub> 8.8 <sub>5</sub>	-597 344	49
12	.389 711	8.32	.986 523	·53	.403 187	8.85	.596 813	48
13	.390 210	8.30	.986 491	.53	.403 718	8.85	.596 282	47
14	.390 708	8.30	.986 459	.53	.404 249	8.82	·595 751	-46
15	9.391 206	8.28	9.986 427	.53	9.404 778	8.83	0.595 222	45
16	.391 703	8.27	.986 395	.53	.405 308 .405 836	8.8o	.594 692 .594 164	44
17	.392 199 .392 695	8.27	.986 363 .986 331	.53	.406 364	8.8o	.593 636	43 42
19	.393 191	8.27	.986 299	-53	.406 892	8.80	.593 108	41
20	9.393 685	8.23	9.986 266	·55	9.407 419	8.78	0.592 581	40
21	.394 179	8.23	.986 234	.53	407 945	8.77	.592 055	39
22	.394 673	8.23 8.22	.986 202	-53	.408 47 I	8.77	.591 529	38
23	.395 166	8.20	.986 169	·55	.408 996	8.75 8.75	.591 004	37
24	.395 658	8.20	.986 137	.55	.409 521	8.73	.590 479	36
25	9.396 150	8.18	9.986 104	.53	9.410 045	8.73	0.589 955	35
26	.396 641	8.18	.986 072	.55	.410 569	8.72	.589 431	34
27 28	.397 132 .397 621	8.15	.986 039 .986 007	.53	.411 092 .411 615	8.72	.588 908 .588 385	33 32
29	.398 111	8.17	.985 974	-55	.412 137	8.70	.587 863	31
30	9.398 600	8.15	9.985 942	.53	9.412 658	8.68	0.587 342	30
31	.399 088	8.13	.985 909	.55	.413 179	8.68	.586 821	29
32	•399 575	8.12 8.12	.985 876	.55	.413 699	8.67 8.67	.586 301	28
33	.400 062	8.12	.985 843	·55	414 219	8.65	.585 781	27
34	.400 549	8.10	.985 811	.55	.414 738	8.65	.585 262	26
35	9.401 035	8.08	9.985 778	.55	9.415 257	8.63	0.584 743	25
36	.401 520	8.08	.985 745	.55	.415 775	8.63	.584 225 .583 707	24
37 38	.402 005 .402 489	8.07	.985 712 .985 679	-55	.416 293 .416 810	8.62	.583 190	23
39	.402 972	8.05	.985 646	.55	.417 326	8.60	.582 674	21
40	9.403 455	8.05	9.985 613	·55	9.417 842	8.60	0.582 158	20
41	403 938	8.05	.985 580	-55	.418 358	8.60	.581 642	19
42	.404 420	8.03 8.02	.985 547	·55	.418 873	8.58 8.57	.581 127	18
43	.404 901	8.02	.985 514	.57	.419 387	8.57	.580 613	17
44	.405 382	8.00	.985 480	.55	.419 901	8.57	.580 099	16
45	9.405 862	7.98	9.985 447	.55	9.420 415	8.53	0.579 585	15
46	.406 341 .406 820	7.98	.985 414	.55	.420 927	8.55	.579 073	14 13
47 48	.407 299	7.98	.985 381 .985 347	-57	.421 440 .421 952	8.53	.578 048	13
49	.407 777	7.97	.985 314	-55	.422 463	8.52	-577 537	11
50	9.408 254	7.95	9.985 280	.57	9.422 974	8.52	0.577 026	10
51	.408 731	7.95	.985 247	-55	.423 484	8.50 8.48	.576 516	ا و ا
52	.409 207	7.93 7.92	.985 213	·57 ·55	·423 993	8.50	.576 007	8
53	.409 682	7.92 7.92	.985 180	·55	.424 503	8.47	·575 497	7
54	.410 157	7.92	.985 146	.55	.425 011	8.47	.574 989	
55	9.410 632	7.90	9.985 113	-57	9.425 519	8.47	0.574 481	5
56	.411 106 .411 579	7.88	.985 079 .985 045	.57	.426 027	8.45	·573 973 ·573 466	4 3
57 58	.412 052	7.88	.985 045	·57	.426 534 .427 041	. 8.45	.572 959	3 2
59	.412 524	7.87	.984 978	·55	.427 547	8.43	.572 453	ī
60	9.412 996	7.87	9.984 944	-57	9.428 052	8.42	0.571 948	
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	<b>X</b> .
	1 0000	1 211	l ôm,		OUN	D		

LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS. 33 15°

M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.412 996	- 0-	9.984 944		9.428 052	0	0.571 948	60
1	413 467	7.85 7.85	.984 910	57	.428 558	8.43 8.40	.571 442	59
2	.413 938	7.83 7.83	.984 876	.57	.429 062	8.40	.570 938	58
3	.414 408	7.83	.984 842	-57	<b>.</b> 429 566	8.40	.570 434	57
4	<b>.</b> 414 878	7.82	.984 808	·57   ·57	430 070	8.38	.569 930	56
5	9.415 347	7.80	9.984 774		9.430 573	8.37	0.569 427	55
6	.415 815	7.80 7.80	.984 740	-57	.431 075	8.37	568 925	54
7	.416 283	7.80	.984 706	·57	-431 577	8.37	.568 423	53
8	.416 751		.984 672		.432 079	8.35	.567 921	52
9	.417 217	7·77 7·78	.984 638	·57 ·58	.432 580	8.33	.567 420	51
10	9.417 684		9.984 603	-57	9.433 080	8.33	0.566 920	50
11	.418 150	7·77 7·75	.984 569	.57	.433 580	8.33	.566 420	49
12	.418 615	7.73	.984 535	.58	.434 080	8.32	.565 920	48
13	.419 O79	7.75	.984 500	.57	-434 579	8.32	.565 421	47
14	.419 544	7.72	.984 466	.57	-435 078	8.30	.564 922	46
15	9.420 007	7.72	9.984 432	.58	9.435 576	8.28	0.564 424	45
16	.420 470	7.72	.984 397		.436 073	8.28	.563 927	44
17	.420 933	7.70	.984 363	·57 ·58	.436 570	8.28	.563 430	43
18	.421 395	7.70	.984 328	.57	.437 067	8.27	.562 933	42
19	.421 857	7.68	.984 294	·57 ·58	.437 563	8.27	.562 437	4 <sup>I</sup>
20	9.422 318	7.67	9.984 259	.58	9.438 059	8.25	0.561 941	40
21	422 778	7.67	.984 224	.57	.438 554	8.23	.561 446	39
22	.423 238	7.65	.984 190	·57	.439 048	8.25	.560 952	38
23	.423 697	7.65	.984 155	.58	-439 543	8.22	.560 457	37
24	.424 156	7.65	.984 120	.58	<b>-44</b> 0 030	8.22	.559 964	36
25	9.424 615	7.63	9.984 085	.58	9.440 529	8.22	0.559 471	35
25	.425 073	7.62	.984 050	.58	.441 022	8.20	.558 978	34
27	.425 530	7.62	.984 015	.57	-441 514	8.20	.558 486	33
28	.425 987	7.60	.983 981	.57 .58	.442 006	8.18	·557 994	32
29	.426 443	7.60	.983 946	.58	-442 497	8.18	·557 5°3	31
30	9.426 899	7.58	9.983 911	.60	9.442 988	8.18	0.557 012	30
31	·427 354	7.58	.983 875	.58	443 479	8.15	.556 521	29
32	.427 809	7.57	.983 840	.58	-443 968	8.17	.556 032	28
33	.428 263 .428 717	7.57	.983 805	.58	-444 458	8.15	.555 542	27 26
34		7·55 ·	.983 770	.58	•444 947	8.13	.555 053	
35	9.429 170	7.55	9.983 735	.58	9-445 435	8.13	0.554 565	25
36	.429 623	7.53	.983 700	.58 .60	-445 923	8.13	.554 077	24
37	.430 075	7.53	.983 664	.58	.446 411 .446 898	8.12	.553 589	23
38	.430 527 .430 978	7.52	.983 629 .983 594	.58 .60	.447 384	8.10	.553 102 .552 616	21
39		7.52		.60		8.10		
40	9.431 429	7.50	9.983 558	.58	9-447 870	8:10	0.552 130	20
41	.431 879	7.50	.983 523 .983 487	.00	.448 356 .448 841	8.08	.551 644 .551 159	19
43	.432 329 .432 778	7.48	.983 452	.58	-449 326	8.08	.550 674	17
44	.433 226	7.47	.983 416	.60	.449 810	8.07	.550 190	16
1	9-433 675	7.48	9.983 381	.58		8.07	0.549 706	
45 46	-434 I22	7-45		.60	9.450 294 .450 777	8.05	.549 223	15 14
47	.434 569	7.45	.983 345 .983 309	.60	.451 260	,8.05	.548 740	13
48	.435 016	7.45	.983 273	.60	-451 743	8.05	.548 257	12
49	435 462	7-43	.983 238	.58	.452 225	8.03	·547 775	11
50	9.435 908	7.43	9.983 202	.60	9.452 706	8.02	0.547 294	10
51	.436 353	7.42	.983 166	.60	.453 187	8.02	.546 813	9
52	.436 798	7-42	.983 130	.60	.453 668	8.02	.546 332	8
53	.437 242	7.40	.983 094	.60	.454 148	8.00	.545 852	7
54	.437 686	7.40	.983 058	.60	.454 628	8.00	·545 372	6
55	9.438 129	7.38	9.983 022	.60	9.455 107	7.98	0.544 893	5
56	.438 572	7.38	.982 986	.60	.455 586	7.98	.544 414	4
57	439 014	7-37	.982 950	.60	.456 064	7.97	.543 936	3
58	.439 456	7.37	.982 914	.60 .60	.456 542	7.97	.543 458	2
59	-439 897	7.35	.982 878	.60	.457 019	7.95 7.95	.542 981	1
60	9.440 338	7-35	9.982 842		9.457 496	1.33	0.542 504	0
<b>——</b>	* Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	¥.
L		A •	1 Nut.					



				16°				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.440 338	# 22	9.982 842	.62•	9.457 496	- 05	0.542 504	60
r	.440 778	7·33 7·33	.982 805	.60	457 973	7.95 7.93	.542 027	59
2	.441 218	7.33	.982 769	.60	.458 449	7.93	.541 551	58
3	.441 658	7.30	.982 733	.62	.458 925	7.92	.541 075	57
4	.442 096	7.32	.982 696	.60	.459 400	7.92	.540 600	56
5	9-442 535	7.30	9.982 660	.60	9.459 875	7.90	0.540 125	55
6	442 973	7.28	.982 624	.62	.460 349	7.90	.539 651	54
7 8	.443 410 .443 847	7.28	.982 587 .982 551	.60	.460 823 .461 297	7.90	.539 177	53
1 - 1	.443 047 .444 284	7.28	.982 514	.62	.461 770	7.88	.538 230	52 51
9		7.27	9.982 477	.62	9.462 242	7.87		
10	9.444 720	7.25	.982 441	.60	.462 715	7.88	0.537 758	50 49
12	.445 155 .445 590	7.25	.982 404	.62	.463 186	7.85	.536 814	48
13	.446 025	7.25	.982 367	.62	.463 658	7.87	.536 342	47
14	.446 459	7.23	.982 331	.60	.464 128	7.83	.535 872	46
15	9.446 893	7.23	9.982 294	.62	9.464 599	7.85	0.535 401	45
16	.447 326	7.22	.982 257	.62	.465 069	7.83	.534 931	44
17	447 759	7.22	.982 220	.62	.465 539	7.83	.534 461	43
18	.448 191	7.20 7.20	.982 183	.62 .62	.466 008	7.82 7.82	-533 992	42
19	.448 623	7.20 7.18	.982 146	.62	.466 477	7.82 7.80	·533 523	41
20	9.449 054	•	9.982 109	.62	9.466 945		0.533 055	40
21	.449 485	7.18 7.17	.982 072	.62	.467 413	7.80 7.78	.532 587	39
22	.449 915	7.17	.982 035	.62	.467 880	7.78	.532 120	38
23	.450 345	7.17	.981 998	.62	-468 347	7.78	.531 653	37
24	·45º 775	7.15	.981 961	.62	468 814	7.77	.531 186	36
25	9.451 204	7.13	9.981 924	.63	9.469 280	7.77	0.530 720	35
26	.451 632	7.13	.981 886	.62	.469 746	7.75	.530 254	34
27	.452 060	7.13	.981 849	.62	.470 211	7.75	529 789	33
28	.452 488 .452 91 5	7.12	.981 812	.63	.470 676	7.75	.529 324	32
29		7.12	.981 774	.62	.471 141	7.73		31
30	9.453 342	7.10	9.981 737 .981 700	.62	9.471 605 .472 069	7.73	0.528 395	30
31 32	.453 768 .454 194	7.10	.981 662	.63	.472 532	7.72	.527 931	29 28
33	.454 619	7.08	.981 625	.62	·472 995	7.72	.527 005	27
34	.455 044	7.08	.981 587	.63	473 457	7.70	.526 543	26
35	9.455 469	7.08	9.981 549	.63	9.473 919	7.70	0.526 081	25
36	.455 893	7.07	.981 512	.62	.474 381	7.70	.525 619	24
37	.456 316	7.05	.981 474	.63	.474 842	7.68	.525 158	23
38	.456 739	7.05 7.05	.981 436	.63 .62	-475 303	7.68 7.67	.524 697	22
39	.457 162	7.03	.981 399	.63	.475 763	7.67	.524 237	21
40	9.457 584	7.03	9.981 361	.63	9.476 223	7.67	0.523 777	20
4I	.458 006	7.02	.981 323	.63	.476 683	7.65	.523 317	19
42	.458 427	7.02	.981 285	.63	477.142	7.65	.522 858	18
43	.458 848	<b>7.∞</b>	.981 247	.63	.477 601	7.63	.522 399	17
44	.459 268	7.00	.981 209	.63	.478 059	7.63	.521 941	16
45	9.459 688	7.00	9.981 171	.63	9.478 517	7.63	0.521 483	15
46	.460 108 .460 527	6.98	.981 133 .981 095	.63	.478 975	7.62	.521 025 .520 568	14
47	.460 946	6.98	.981 095	.63	.479 43 <b>2</b> .479 889	7.62	.520 506	13
49	.461 364	6.97	.981 019	.63	.480 345	7.60	.519 655	111
50	9.461 782	6.97	9.980 981	.63	9.480 801	7.60	0.519 199	10
51	.462 199	6.95	.980 942	65	.481 257	7.60	.518 743	~
52	.462 616	6.95	.980 904	.63	.481 712	7.58	.518 288	8
53	.463 032	6.93 6.93	.980 866	.63	.482 167	7.58	.517 833	7
54	.463 448	6.93	.980 827	.65 .63	.482 621	7.57	.517 379	6
55	9.463 864	6.92	9.980 789	.65	9.483 075	7.57	0.516 925	5
56	.464 279	6.92	.980 750	.63	.483 529	7.57	.516 471	4
57	.464 694	6.90	.980 712	.65	.483 982	7·55 7·55	.516 018	3
58	.465 108	6.90	.980 673	.63	.484 435	7·53 7·53	.515 565	2
59	.465 522	6.88	.980 635	.65	.484 887	7·53	.515 113	1
60	9.465 935	l	9.980 596		9.485 339		0.514 661	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.465 935		9.980 596		9.485 339	- /	0.514 661	бо
1	.466 348	6.88	.980 558	.63	.485 791	7.53	.514 209	59
2	.466 761	6.88	1.980 519	.65	.486 242	7.52	.513 758	58
3	.467 173	6.87	.980 480	.65	.486 693	7.52	.513 307	57
4	.467 585	6.87	.980 442	.63	.487 143	7.50	.512 857	56
	9.467 996	6.85	9.980 403	.65	9.487 593	7.50	0.512 407	
5		6.85		.65	.488 043	7.50		55
	468 407	6.83	.980 364	.65		7.48	-511 957	54
7	.468 817	6.83	.980 325	.65	.488 492	7.48	.511 508	53
8	.469 227	6.83	.980 286	.65	.488 941	7.48	.511 059	52
9	.469 637	6.82	.980 247	.65	.489 390	7.47	.510 610	5
10	9.470 046	6.82	9.980 208	.65	9.489 838	7.47	0.510 162	50
11	-470 455	6.80	.980 169	.65	.490 286		.509 714	49
12	.470 863	6.80	.980 130		.490 733	7.45	.509 267	4
13	.471 271		.980 091	.65	.491 180	7.45	.508 820	4
14	.471 679	6.80	.980 052	.65	.491 627	7.45	.508 373	4
15	9.472 086	6.78	9.980 012	.67	9.492 073	7.43	0.507 927	45
16		6.77		.65	492 519	7.43	.507 481	44
700	.472 492 .472 898	6.77	-979 973	.65		7.43	.507 035	1, 250
17		6.77	-979 934	.65	.492 965	7.42	.506 590	4:
1000	-473 304	6.77	.979 895	.67	.493 410	7.40		
19	-473 710	6.75	.979 855	.65	.493 854	7.42	.506 146	4
20	9.474 115	6.73	9.979 816	.67	9.494 299	7.40	0.505 701	4
21	-474 519		.979 776	.65	.494 743	7.38	.505 257	39
22	-474 923	6.73	-979 737	.67	.495 186		.504 814	3
23	-475 327	6.73	.979 697	,65	.495 630	7.40	.504 370	3
24	-475 730	6.72	.979 658		.496 073	7.38	.503 927	3
2011	9.476 133	6.72	9.979 618	.67	9.496 515	7.37	0.503 485	3
25 26	.476 536	6.72		.65	496 957	7-37	.503 043	
A		6.70	-979 579	.67		7.37		34
27	.476 938	6.70	-979 539	.67	-497 399	7.37	.502 601	3.
28	-477340	6.68	.979 499	.67	.497 841	7.35	.502 159	3
29	-477 741	6.68	-979 459	.65	.498 282	7.33	.501 718	3
30	9.478 142	6.67	9.979 420	.67	9.498 722		0.501 278	30
31	.478 542		.979 380	.67	.499 163	7.35	.500 837	29
32	.478 942	6.67	.979 340	6-	.499 603	7.33	.500 397	28
33	-479 342	6.67	.979 300	.67	.500 042	7.32	.499 958	2
34	-479 741	6.65	.979 260	.67	.500 481	7.32	-499 519	20
100 J	9.480 140	6.65	The second secon	.67	9.500 920	7.32	0.499 080	25
35		6.65	9.979 220	.67		7.32	.498 641	
36	.480 539	6.63	.979 180	.67	.501 359	7.30		24
37	.480 937	6.62	.979 140	.67	.501 797	7.30	.498 203	2
38	.481 334	6.62	.979 100	.68	.502 235	7.28	-497 765	2:
39	.481 731	6.62	.979 059	.67	.502 672	7.28	.497 328	2
40	9.482 128	6.62	9.979 019	.67	9.503 109	7.28	0.496 891	2
41	.482 525		.978 979	.07	.503 546	A. V. V. V. V.	.496 454	1
42	.482 921	6.60	.978 939	.67	.503 982	7.27	.496 018	1
43	.483 316	6.58	.978 898	.68	.504 418	7.27	.495 582	1
44	.483 712	6.60	.978 858	.67	.504 854	7.27	.495 146	1
		6.58		.68		7.25	100000000000000000000000000000000000000	
45	9.484 107	6.57	9.978 817	.67	9.505 289	7.25	0.494 711	I
46	.484 501	6.57	-978 777	.67	.505 724	7.25	494 276	1.
47	.484 895	6.57	.978 737	.68	.506 159	7.23	.493 841	I;
48	.485 289	6.55	.978 696	.68	. 506 593	7.23	.493 407	1:
49	.485 682	6.55	.978 655	.67	.507 027	7.22	.492 973	1
50	9.486 075		9.978 615	.68	9.507 460		0.492 540	10
51	.486 467	6.53	.978 574		.507 893	7.22	.492 107	
52	.486 860	6.55	.978 533	.68	.508 326	7.22	.491 674	1
53	.487 251	6.52	.978 493	.67	.508 759	7.22	.491 241	
54	.487 643	6.53	.978 452	.68	.509 191	7.20	.490 809	3
		6.52		.68	• • • •	7.18		
55	9.488 034	6.50	9.978 411	.68	9.509 622	7.20	0.490 378	
56	488 424	6.50	.978 370	.68	.510 054	7.18	.489 946	4
57	.488 814	6.50	.978 329	.68	.510 485	7.18	.489 515	8
58	.489 204	6.48	.978 288	.68	.510 916	7.17	.489 084	1
59	.489 593	6.48	.978 247	.68	.511 346	7.17	.488 654	1
60	9.489 982		9.978 206		9.511 776	11	0.488 224	•
						D. 1".	Tan.	M

				1 <b>8</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.489 982	6.48	9.978 206	.68	9.511 776		0.488 224	60
I	.490 371	6.47	.978 165	.68	.512 206	7.17 7.15	-487 794	59
2	.490 759	6.47	.978 124	.68	.512 635	7.15	.487 365	58
3	.491 147	6.47	.978 083	.68	.513 064	7.15	.486 936	57
4	.491 535	6.45	.978 042	.68	.513 493	7.13	.486 507	56
5	9.491 922	6.43	9.978 001	.70	9.513 921	7.13	0.486 079	55
6	.492 308	6.45	•977 959	.68	.514 349	7.13	.485 651	54
7 8	.492 695	6.43	.977 918	.68	.514 777	7.12	.485 223	53
	.493 081 .493 466	6.42	.977 877 .977 835	.70	.515 204	7.12	.484 796 .484 369	52
9	.493 400	6.42		.68	.515 631	7.10		51
10	9.493 851	6.42	9.977 794	.70	9.516 057 .516 484	7.12	0.483 943 .483 516	50
12	.494 236 .494 621	6.42	.977 752 .977 711	.68	.516 910	7.10	.483 090	49 48
13	.495 005	6.40	.977 669	.70	.517 335	7.08	.482 665	47
14	.495 388	6.38	.977 628	.68	.517 761	7.10	482 239	46
15	9.495 772	6.40	9.977 586	.70	9.518 186	7.08	0.481 814	
16	.496 154	6.37	·977 544	.70	.518 610	7.07	.481 390	45 44
17	.496 537	6.38	.977 503	.68	.519 034	7.07	.480 966	43
18	.496 919	6.37	.977 461	.70	.519 458	7.07	.480 542	42
19	.497 301	6.37	.977 419	.70	.519 882	7.07	.480 118	41
20	9.497 682	6.35	9.977 377	.70	9.520 305	7.05	0.479 695	40
21	498 064	6.37	977 335	.70	.520 728	7.05	.479 272	39
22	.498 444	6.33	·977 293	.70	.521 151	7.05	.478 849	38
23	.498 825	6.35 6.32	.977 251	.70	.521 573	7.03 7.03	.478 427	37
24	.499 204	6.33	.977 209	.70 .70	.521 995	7.03	478 005	36
25	9.499 584	6.32	9.977 167	1 1	9.522 417		0.477 583	35
26	.499 963	6.32	.977 125	.70 .70	.522 838	7.02 7.02	.477 162	34
27	.500 342	6.32	.977 083	.70	.523 259	7.02	476 741	33
28	.500 721	6.30	.977 041	.70	.523 680	7.00	.476 320	32
29	.501 099	6.28	976 999	.70	.524 100	7.00	-475 900	31
30	9.501 476	6.30	9.976 957	.72	9.524 520	7.00	0.475 480	30
31	.501 854	6.28	.976 914	.70	.524 940	6.98	-475 060	29
32	.502 231	6.27	.976 872	.70	.525 359	6.98	474 641	28
33 34	.502 607 .502 984	6.28	.976 830 .976 787	.72	.525 778 .526 197	6.98	.474 222 .473 803	27
		6.27		.70		6.97		1
35 36	9.503 360	6.25	9.976 745 .976 702	.72	9.526 615	6.97	0.473 385	25
37	.503 735 .504 110	6.25	.976 660	.70	.527 033 .527 451	6.97	-472 967 -472 549	24 23
38	.504 485	6.25	.976 617	.72	.527 868	6.95	.472 132	22
39	.504 860	6.25	.976 574	.72	.528 285	6.95	471 715	21
40	9.505 234	6.23	9.976 532	.70	9.528 702	6.95	0.471 298	20
41	.505 608	6.23	.976 489	.72	.529 119	6.95	470 881	19
42	.505 981	6.22	.976 446	.72	.529 535	6.93	.470 465	18
43	.506 354	6.22 6.22	.976 404	.70	.529 951	6.93	.470 049	17
44	.506 727	6.20	.976 361	.72 .72	.530 366	6.92 6.92	.469 634	16
45	9.507 099	6.20	9.976 318		9.530 781		0.469 219	15
46	.507 471	6.20	.976 275	.72	.531 196	6.92	.468 804	14
47	.507 843	6.18	.976 232	.72 .72	.531 611	6.92 6.90	.468 389	13
48	.508 214	6.18	.976 189	.72	.532 025	6.90	-467 975	12
49	.508 585	6.18	.976 146	.72	·532 439	6.90	467 561	11
50	9.508 956	6.17	9.976 103	.72	9.532 853	6.88	0.467 147	10
51	.509 326	6.17	.976 060	.72	.533 266	6.88	-466 734	9
52	.509 696	6.15	.976 017	.72	.533 679	6.88	.466 321	8
53	.510 065	6.15	·975 974	-73	.534 092	6.87	.465 908	7
- 54	.510 434	6.15	.975 930	.72	.534 504	6.87	.465 496	6
55	9.510 803	6.15	9.975 887	.72	9.534 916	6.87	0.465 084	5
55	.511 172	6.13	.975 844	.73	.535 328	6.85	.464 672 .464 261	4
57 58	.511 540	6.12	.975 800 -975 757	.72	·535 739 ·536 150	6.85	.463 850	·3
59	.512 275	6.13	.975 714	.72	.536 561	6.85	.463 439	i
60	9.512 642	6.12	9.975 670	-73	9.536 972	6.85	0.463 028	
		- <del></del>						
L	Cos.	D. 1".	Sin.	D. 1".	Oot.	D. 1".	Tan.	M.
_				<b>=1</b> 0				

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и		к	,

190										
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	l l		
0	9.512 642		9.975 670		9.536 972		0.463 028	60		
ī	.513 009	6.12	.975 627	.72	537 382	6.83	.462 618	59		
2	.513 375	6.10	.975 583	.73	·537 792	6.83	.462 208	58		
3	.513 741	6.10 ·	975 539	.73	.538 202	6.83	.461 798	57		
4	.514 107	6.10	.975 496	.72	.538 611	6.82	<b>.461 389</b>	56		
-		6.08		·73		6.82	0.460 980			
5	9.514 472	6.08	9.975 452	-73	9.539 020	6.82		55		
6	.514 837	6.08	.975 408	.72	.539 429	6.8o	.460 571	54		
7 8	.515 202	6.07	.975 365	.73	.539 837	6.80	.460 163	53		
	.515 566	6.07	.975 321	-73	.540 245	6. <b>8</b> 0	·459 755	52		
9	.515 930	6.07	·975 <b>277</b>	1.73	.540 653	6. <b>8</b> 0	-459 347	51		
10	9.516 294	6.05	9.975 233	-73	9.541 061	6.78	0.458 939	50		
11	.516 657	6.05	.975 189	.73	.541 468	6.78	-458 532	49		
12	.517 020	6.03	.975 145	.73	.541 875	6.77	.458 125	48		
13	.517 382	6.05	.975 101	.73	.542 281	6.78	-457 719	47		
14	-517 745	6.03	.975 °57	.73	.542 688	6.77	.457 312	46		
15	9.518 107	6,02	9.975 013	.73	9.543 094	6.75	0.456 906	45		
16	.518 468	6.02	.974 969	·/3 ·73	·543 499	6.77	.456 501	44		
17	.518 829	6.02	.974 925		.543 905	6.75	456 095	43		
18	.519 190	6.02	.974 880	·75	.544 310	6.75	.455 690	42		
19	.519 551	6.00	.974 836	.73	-544 715	6.73	.455 285	4I		
20	9.519 911	1	9.974 792		9.545 119		0.454 881	40		
21	.520 271	6.00	.974 748	-73	.545 524	6.75	-454 476	39		
22	.520 631	6.00	.974 703	·75	.545 928	6.73	.454 072	38		
23	.520 990	5.98	.974 659	-73	.546 331	6.72	.453 669	37		
24	.521 349	5.98	.974 614	·75	.546 735	6.73	.453 265	36		
25	9.521 707	5.97	9.974 570	·73	9.547 138	6.72	0.452 862	35		
26	.522 066	5.98	·974 525	.75	.547 540	6.70	-452 460	34		
27	.522 424	5-97	.974 481	·73	-547 943	6.72	452 057	33		
28	.522 781	5.95	.974 436	.75	.548 345	6.70	451 655	32		
29	.523 138	5-95	.974 391	.75	.548 747	6.70	.451 253	31		
		5.95		-73	9.549 149	6.70	0.450 851	30		
30	9.523 495 .523 852	5.95	9.974 347	-75		6.68	-450 450	29		
31	.524 208	5.93	.974 302 .974 257	-75	.549 550 .549 951	6.68	450 049	28		
32	.524 564	5.93	.974 212	.75	.550 352	6.68	449 648	27		
33 34	.524 920	5.93	.974 167	·75	.550 752	6.67	-449 248	26		
	-	5.92		·75		6.68	0.448 847			
35	9.525 275	5.92	9.974 122	.75	9.551 153	6.65	.448 448	25		
36	.525 630 .525 984	5.90	.974 07 <b>7</b>	.75	.551 552	6.67	-448 048	24		
37	.526 339	5.92	.974 03 <b>2</b> .973 987	.75	.551 952	6.65	-447 649	23 22		
38	.526 693	5.90		-75	.552 351 .552 750	6.65	.447 250	21		
39		<b>š.</b> 88	.973 942	.75		6.65				
40	9.527 046	5.90	9.973 897	.75	9.553 149	6.65	0.446 851	20		
41	.527 400	5.88	.973 852	.75	.553 548	6.63	-446 452	19		
42	.527 753	5.87	.973 807	.77	.553 946	6.63	.446 054	18		
43	.528 105 .528 458	5.88	.973 761	.75	-554 344	6.62	.445 656	17 16		
44		5.87	.973 716	.75	-554 741	6.63	-445 259			
45	9.528 810	5.85	9.973 671	.77	9.555 139	6.62	0.444 861	15		
46	.529 161	5.87	.973 625	-75	.555 536	6.62	-444 464	14		
47	.529 513	5.85	.973 580	.75	·555 933	6.60	-444 067	13		
48	.529 864	5.85	.973 535	.77	.556 329	6.60	.443 671	12		
49	.530 215	5.83	.973 489	-75	.556 725	6.60	-443 <sup>2</sup> 75	11		
50	9.530 565	5.83	9-973 444	.77	9.557 121	6.60	0.442 879	10		
51	.530 915	5.83	.973 398	77	-557 517	6.60	.442 483	9		
52	.531 265	5.82	<i>-</i> 973 35 <b>2</b>	.75	.557 913	6.58	-442 087	8		
53	.531 614	5.82	.973 <b>3</b> 97	.77	.558 308	6.58	.441 692	7		
54	.531 963	5.82	.973 261	-77	.558 703	6.57	-441 297	6		
55	9.532 312	5.82	9.973 215	1 1	9.559 097		0.440 903	5		
56	.532 661	5.80	.973 169	.77	.559 491	6.57	.440 509	4		
57	.533 009	5.80	.973 124	-75	.559 885	6.57	.440 I 15	3		
58	·533 357	5.78	.973 078	.77	.560 279	6.57	439 721	2		
59	.533 704	5.70	.973 032	-77	.560 673	6.57	-439 327	1		
60	9.534 052	3.00	9.972 986	.77	9.561 066	6.55	0.438 934	0		
——		D 3"		1		D 1"	. — — — —			
J	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.		

38 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS.

				<b>20</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.534 052	r 78	9.972 986		9.561 066	6 ==	0.438 934	60
] [	-534 399	5.78 5.77	.972 940	·77	.561 459	6.55 6.53	.438 541	59
2	·534 745	5.78	.972 894	.77	.561 851	6.55	.438 149	58
3	.535 092	5.77	.972 848		.562 244	6.53	-437 75 <sup>6</sup>	57
4	.535 438	5.75	.972 802	·77	.562 636	6.53	437 364	56
5	9.535 783	5.77	9.972 755	77	9.563 028	6.52	0.436 972	55
6	.536 129	5.75	.972 709	77	.563 419	6.53	.436 581	54
7 8	.536 474	5.73	.972 663		.563 811	6.52	.436 189	53
	.536 818	5.75	.972 617	·77	.564 202	6.52	435 798	52 51
9	.537 163	5.73	.972 570	.77	.564 593	6.50	435 407	50
10	9.537 507	5.73	9.972 524	.77	9.564 983	6.50	0.435 017	
111	.537 851 .538 194	5.72	.972 478	.78	.565 373	6.50	.434 627	49 48
12 13	.538 538	5.73	.972 431 .972 385	.77	.565 763 .566 153	6.50	-434 237 -433 847	47
14	.538 880	5.70	.972 338	.78	.566 542	6.48	433 458	46
		5.72		.78		6.50		
15 16	9.539 223	5.70	9.972 291	.77	9.566 932	6.47	0.433 068	45
17	.539 565 .539 907	5.70	.972 245 .972 198	.78	.567 320 .567 709	6.48	.432 291	44
18	.540 249	5.70	972 151	.78	.568 098	6.48	431 902	42
19	.540 590	5.68	.972 105	.77	.568 486	6.47	.431 514	
20	9.540 931	5.68	9.972 058	.78	9.568 873	6.45	0.431 127	40
21	.541 272	5.68	.972 011	.78	.569 261	6.47	.430 739	39
22	.541 613	5.68	.971 964	.78	.569 648	6.45	.430 352	38
23	.541 953	5.67	.971 917	.78	.570 035	6.45	.429 965	37
24	.542 293	5.67	.971 870	.78	.570 422	6.45	.429 578	36
25	9.542 632	5.65	9.971 823	.78	9.570 809	6.45	0.429 191	35
26	.542 971	5.65	.971 776	.78	.571 195	6.43	.428 805	34
27	.543 310	5.65	.971 729	.78	.571 581	6.43	.428 419	33
28	.543 649	5.65 5.63	.971 682	.78 .78	.571 967	6.43 6.42	.428 033	32
29	.543 987	5.63	.971 635	.78	.572 352	6.43	.427 648	31
30	9.544 325	5.63	9.971 588	.80	9.572 738	6.42	0.427 262	30
31	.544 663	5.62	.971 540	.78	.573 123	6.40	.426 877	29
32	.545 000	5.63	.971 493	.78	.573 507	6.42	.426 493	28
33	-545 338	5.60	.971 446	.80	.573 892	6.40	.426 108	27
34	.545 674	5.62	.971 398	.78	.574 276	6.40	.425 724	26
35	9.546 011	5.60	9.971 351	.80	9.574 660	6.40	0.425 340	25
36	.546 347	5.60	.971 303	.78	.575 044	6.38	.424 956	24
37	.546 <sup>*</sup> 683 .547 019	5.60	.971 256	.šo	.575 427 .575 810	6.38	-424 573	23
38 39	·547 354	5.58	.971 208 .971 161	.78	.576 193	6.38	.424 190	21
1	9.547 689	5.58		.80		6.38	1	20
40 41	.548 024	5.58	9.971 113	.78	9.576 576	6.38	0:423 424	19
42	.548 359	5.58	.971 018	.80	.576 959 .577 341	6.37	.423 041	18
43	.548 693	5.57	.970 970	.80	.577 723	6.37	.422 277	17
44	.549 027	5.57	.970 922	.80	.578 104	6.35	.421 896	16
45	9.549 360	5.55.	9.970 874	.80	9.578 486	6.37	0.421 514	15
46	.549 693	5.55	.970 827	.78	.578 867	6.35	.421 133	14
47	.550 026	5.55	.970 779	.80	.579 248	6.35	.420 752	13
48	.550 359	5.55	.970 731	.80 .80	.579 629	6.35	.420 371	12
49	.550 692	5.55	.970 683	.80	.580 009	6.33	.419 991	11
50	9.551 024	5.53	9.970 635	.82	9.580 389	6.33 .	0.419 611	10
51	.551 356	5.53	.970 586	.80	.580 769	6.33	.419 231	9
52	.551 687	5.52 5.52	.970 538	.80	.581 149	6.33 6.32	.418 851	8
53	.552 018	5.52	.970 490	.80	.581 528	6.32	.418 472	7
54	-552 349	5.52	.970 442	.80	.581 907	6.32	.418 093	6
55	9.552 680	5.50	9.970 394	.82	9.582 286	6.32	0.417 714	5
56	.553 010	5.52	.970 345	.80	.582 665	6.32	.417 335	4
57	.553 341	. 5.48	.970 297	.80	.583 044	6.30	.416 956	3
58	.553 670	5.50	.970 249	.82	.583 422	6.30	.416 578	2
59	.554 000	5.48	.970 200	.80	.583 800	6.28	.416 200	I
60	9.554 329		9.970 152		9.584 177		0.415 823	_ 0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
				<b>60</b> 0				

v	l 0:	T 34	1 0	7	m.	D 3"	0-4	
<u>M.</u>	8in	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	-
0	9.554 329	5.48	9.970 152	.82	9.584 177	6.30	0.415 823	60
1	.554 658	5.48	.970 103	.8o	.584 555	6.28	.415 445	59
2	-554 987	5.47	.970 055	.82	.584 932	6.28	.415 068	58
3	.555 315	5.47	.970 006	.82	.585 309	6.28	.414 691	57
4	.555 643	5.47	.969 957	.8o	.585 686	6.27	.414 314	56
5	9.555 971	5-47	9.969 909	.82	9.586 062	6.28	0.413 938	55
6	.556 299	5.45	.969 860	.82	.586 439	6.27	.413 561	54
7	.556 626	5.45	.969 811	82	.586 815	6.25	.413 185	53
8	.556 953	5.45	.969 762	.80	.587 190	6.27	.412 810	52
9	.557 280	5.43	.969 714	.82	.587 566	6.25	.412 434	51
10	9.557 606		9.969 665	.82	9.587 941		0.412 059	50
11	.557 932	5.43	.969 616		.588 316	6.25	.411 684	49
12	.558 258	5.43	.969 567	.82	.588 691	6.25	.411 309	48
13	.558 583	5.42	.969 518	.82	.589 066	6.25	.410 934	47
14	.558 909	5-43	.969 469	.82	.589 440	6.23	.410 560	46
		5.42	9.969 420	.82	9.589 814	6.23	0.410 186	45
15 16	9.559 234	5.40		.83	.590 188	6.23	,409 812	
	.559 558 .559 883	5.42	.969 370	.82		6.23		44
17		5.40	.969 321	.82	.590 562	6.22	.409 438	43
18	.560 207	5.40	.969 272	.82	.590 935 .591 308	6.22	.409 065	42
19	.560 531	5.40	.969 223	.83		6.22	.408 692	41
20	9.560 855	5.38	9.969 173	.82	9.591 681	6.22	0.408 319	40
21	.561 178	5.38	.969 124	.82	.592 054	6.20	.407 946	39
22	.561 501	5.38	.969 075	.83	.592 426	6.22	.407 574	38
23	.561 824		.969 025	.82	.592 799	6.20	.407 201	37
24	.562 146	5.37	.968 976	.83	.593 171	6.18	.406 829	36
25	9.562 468	5.37	9.968 926		9.593 542		0.406 458	35
26	.562 790	5.37	.968 877	.82	.593 914	6.20	.406 086	34
27	.563 112	5.37	.968 827	.83	.594 285	6.18	.405 715	33
28	.563 433	5.35	.968 777	.83	.594 656	6.18	.405 344	32
29	.563 755	5.37	.968 728	.82	.595 027	6.18	.404 973	31
_		5.33		.83		6.18		1 5 3
30	9.564 075	5.35	9.968 678	.83	9.595 398	6.17	0.404 602	30
31	.564 396	5.33	.968 628	.83	.595 768	6.17	.404 232	29
32	.564 716	5.33	.968 578	.83	.596 138	6.17	.403 862	28
33	.565 036	5.33	.968 528	.82	.596 508	6.17	.403 492	27
34	.565 356	5.33	.968 479	.83	.596 878	6.15	.403 122	26
35	9.565 676	5.32	9.968 429	.83	9.597 247	6.15	0.402 753	25
36	.565 995		.968 379	.83	.597 616	6.15	.402 384	24
37	.566 314	5.32	.968 329	.85	.597 985		.402 015	23
38	.566 632	5.30	.968 278		.598 354	6.15	.401 646	22
39	.566 951	5.32	.968 228	.83	.598 722	6.13	.401 278	21
40	9.567 269	5.30	9.965 178	.83	9.599 091	6.15	0.400 909	20
41	.567 587	5.30	.968 128	.83	.599 459	6.13	.400 541	19
	.567 904	5.28	.968 078	.83	.599 827	6.13	400 173	18
42	.568 222	5.30	.968 027	.85	.600 194	6.12	.399 806	17
43	.568 539	5.28		.83	.600 562	6.13		16
44		5.28	.967 977	.83		6.12	-399 438	100
45	9.568 856	5.27	9.967 927	.85	9.600 929	6.12	0.399 071	15
46	.569 172	5.27	.967 876	.83	.601 296	6.12	.398 704	14
47	.569 488	5.27	.967 826	.85	.601 663	6.10	.398 337	13
48	.569 804	5.27	.967 775	.83	.602 029	6.10	-397 971	12
49	.570 120	5.25	.967 725	.85	.602 395	6.10	.397 605	11
50	9.570 435		9.967 674	.83	9.602 761	6.10	0.397 239	IC
51	.570 751	5.27	.967 624	1.03	.603 127		.396 873	9
52	.571 066	5.25	.967 573	.85	.603 493	6.10	.396 507	8
53	.571 380	5.23	.967 522	.85	.603 858	6.08	.396 142	7
54	.571 695	5.25	.967 471	.85	.604 223	6.08	-395 777	é
	9.572 009	5.23	9.967 421	.83	9.604 588	6.08		
55		5.23	1 * *	.85	.604 953	6.08	0.395 412	5
56	.572 323	5.22	.967 370	.85		6.07	-395 047	4
57	.572 636	5.23	.967 319	.85	.605 317	6.08	.394 683	3
58	.572 950	5.22	.967 268	.85	.605 682	6.07	.394 318	2
59	.573 263	5.20	.967 217	.85	.606 046	6.07	-393 954	1
60	9.573 575	ļ	9.967 166	"	9.606 410	•	0.393 590	C

M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0			9.967 166		9.606 410		0.393 590	 6o
I	9·573 575 ·573 888	5.22	.967 115	.85	.606 773	6.05	.393 227	59
2	.574 200	5.20	.967 064	.85	.607 137	6.07	.392 863	58
3	.574 512	5.20	.967 013	.85	.607 500	6.05	.392 500	57
4	.574 824	5.20	.966 961	.87	.607 863	6.05 6.03	.392 137	56
5	9.575 136	5.20	9.966 910	.85	9.608 225		0.391 775	55
6	·575 447	5.18	.966 859	.85	.608 588	6.05	.391 412	54
7	.575 758	5.18 5.18	.966 808	.85 .87	.608 950	6.03 6.03	.391 050	53
8	.576 069	5.17	.966 756	.85	.609 312	6.03	.390 688	52
9	.576 379	5.17	.966 705	.87	.609 674	6.03	.390 326	51
10	9.576 689	5.17	9.966 653	.85	9.610 036	6.02	0.389 964	50
11	.576 999	5.17	.966 602	.87	.610 397	6.03	.389 603	49
12	.577 309	5.15	.966 550	.85	.610 759	6.02	.389 241	48
13	.577 618	5.15	.966 499	.87	.611 120	6.00	.388 880	47
14	·577 927	5.15	.966 447	.87	.611 480	6.02	388 520	46
15	9.578 236	5.15	9.966 395	.85	9.611 841	6.00	0.388 159	45
16	.578 545	5.13	.966 344	.87	.612 201	6.00	.387 799	44
17	.578 853 .579 162	5.15	.966 292 .966 240	.87	.612 561 .612 921	6.00	.387 439 .387 079	43
19	.579 102	5.13	.966 188	.87	.612 921	6.00	.386 719	42 41
- 1		5.12	_	.87		6.00	0.386 359	
20 21	9.579 777 .580 085	5.13	9.966 136 .966 085	.85	9.613 641 .614 000	5.98	.386 000	40
22	.580 392	5.12	.966 ozz	.87	.614 359	5.98	.385 641	39 38
23	.580 699	5.12	.965 981	.87	.614 718	5:98	.385 282	37
24	.581 005	5.10	.965 929	.87 .88	.615 077	5.98	.384 923	36
25	9.581 312	5.12	9.965 876	1 1	9.615 435	5.97	0.384 565	35
26	.581 618	5.10	.965 824	.87	.615 793	5.97	.384 207	34
27	.581 924	5.10	.965 772	.87	.616 151	5.97	.383 849	33
28	.582 229	5.08 5.10	.965 720	.87 .87	.616 509	5.97	.383 491	32
29	.582 535	5.08	.965 668	.88	.616 867	5.97 5.95	.383 133	31
30	9.582 840	5.08	9.965 615	.87	9.617 224		0.382 776	30
31	.583 145	5.07	.965 563	.87	.617 582	5.97 5.95	.382 418	29
32	.583 449	5.08	.965 511	.88	.617 939	5.93	.382 061	28
33	.583 754	5.07	.965 458	.87	.618 295	5.95	.381 705	27
34	.584 058	5.05	.965 406	.88	.618 652	5.93	.381 348	26
35	9.584 361	5.07	9.965 353	.87	9.619 008	5.93	0.380 992	25
36	.584 665	5.05	.965 301	.88	.619 364	5.93	.380 636 .380 280	24
37	.584 968	5.07	.965 248	.88	.619 720	5.93		23
38	.585 272 .585 574	5.03	.965 195 .965 143	.87	.620 076 .620 432	5.93	.379 9 <del>24</del> .379 568	22 21
39	9.585 877	5.05		.88		5.92		20
40	.586 179	5.03	9.965 090 .965 037	.88	9.620 787 .621 142	5.92	0.379 213 .378 858	19
4I 42	.586 482	5.05	.964 984	.88	.621 497	5.92	.378 503	18
43	.586 783	5.02	.964 931	.88	.621 852	5.92	.378 148	17
44	.587 085	5.03	.964 879	.87	.622 207	5.92	377 793	16
45	9.587 386	5.02	9.964 826	.88	9.622 561	5.90	0.377 439	15
46	.587 688	5.03	.964 773	.88	.622 915	5.90	.377 085	14
47	.587 989	5.02	.964 720	.88	.623 269	5.90	.376 731	13
48	.588 289	5.00 5.02	.964 666	.90 .88	.623 623	5.90 5.88	.376 377	12
49	.588 590	5.00	.964 613	.88	.623 976	5.90	.376 024	11
50	9.588 890	5.00	9.964 560	.88	9.624 330	5.88	0.375 6 <b>7</b> 0	10
51	.589 190	4.98	.964 507	.88	.624 683	5.88	.375 317	9
52	.589 489	5.00	.964 454	.90	.625 036	1 5.87	.374 964	8
53	.589 789	4.98	.964 400	.88	.625 388	5.88	.374 612	7 6
54	.590 088	4.98	.964 347	.88	.625 741	5.87	·374 259	
55	9.590 387	4.98	9.964 294	.90	9.626 093	5.87	0.373 907	5
56	.590 686	4.97	.964 240	.88	.626 445	5.87	·373 555	4
57	.590 984	4.97	.964 187	.90	.626 797	5.87	.373 203 .372 851	3 2
58	.591 282 .591 580	4.97	.964 133 .964 080	.88	.627 149 .627 501	5.87	.372 499	1
59 60	9.591 878	4.97	9.964 026	.90		5.85	0.372 148	
			<u> </u>		9.627 852	<u>-</u>		
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS. 41

				<b>23</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1",	Cot.	
0	9.591 878		9.964 026		9.627 852	5.85	0.372 148	60
r	.592 176	4.97	.963 972	.90 .88	.628 203	5.85	-371 797	59
2	.592 473	4.95 4.95	.963 919	.90	.628 554	5.85	-371 446	58
3	.592 770	4.95	.963 865	.90	.628 905	5.83	.371 095	57
4	.593 067	4.93	.963 811	.go	.629 255	5.85	-370 745	56
5	9.593 363	4.93	9.963 757	.88	9.629 606	5.83	0.370 394	55
6	.593 659	4.93	.963 704	.90	.629 956	5.83	370 044	54
7 8	.593 955	4.93	.963 650	.90	.630 306 .630 656	5.83	.369 694	53
	.594 251	4.93	.963 596 .963 542	.90	.631 005	5.82	.368 995	52 51
9	.594 547	4.92		.90	9.631 355	5.83	0.368 645	
IO	9.594 842	4.92	9.963 488	.90	.631 704	5.82	.368 296	50 49
12	.595 137 .595 432	4.92	.963 379	.92	.632 053	5.82	.367 947	48
13	.595 727	4.92	.963 325	.90	.632 402	5.82	.367 598	47
14	.596 021	4.90	.963 271	.90	.632 750	5.80	.367 250	46
15	9.596 315	4.90	9.963 217	.90	9.633 099	5.82	0.366 901	45
16	.596 609	4.90	.963 163	.90	.633 447	5.80 5.80	.366 553	44
17	.596 903	4.90 4.88	.963 108	.92	.633 795	5.80	.366 205	43
18	.597 196	4.66 4.90	.963 054	.90 .92	.634 143	5.78	.365 857	42
19	.597 490	4.88	.962 999	امما	.634 490	5.80	.365 510	41
20	9.597 783	4.87	9.962 945	.92	9.634 838	5.78	0.365 162	40
21	.598 075	4.88	.962 890	.90	.635 185	5.78	.364 815	39
22	.598 368	4.87	.962 836	.92	.635 532	5.78	.364 468	38
23	.598 660	4.87	.962 781	.90	.635 879	5.78	.364 121	37
24	.598 952	4.87	.962 727	.92	.636 226	5.77	.363 774	36
25	9.599 244	4.87	9.962 672	.92	9.636 572	5.78	0.363 428	35
26	.599 536	4.85	.962 617	.92	.636 919	5.77	.363 081	34
27	.599 827 .600 118	4.85	.962 562	.90	.637 265 .637 611	5.77	.362 735	33
28 29	.600 409	4.85	.962 508 .962 453	.92	.637 956	5.75	.362 044	32
- 1		4.85		.92	9.638 302	5.77	0.361 698	1000
30	9.600 <sup>.</sup> 700 .600 990	4.83	9.962 398	.92	.638 647	5.75	.361 353	30
31 32	.601 280	4.83	.962 288	.92	.638 992	5.75	.361 008	28
33	.601 570	4.83	.962 233	.92	.639 337	5.75	.360 663	27
34	.601 860	4.83	.962 178	.92	.639 682	5.75	.360 318	26
35	9.602 150	4.83	9.962 123	.92	9.640 027	5.75	0.359 973	25
36	.602 439	4.82	.962 067	.93	.640 371	5.73	.359 629	24
37	.602 728	4.82 4.82	.962 012	.92	.640 716	5·75 5·73	-359 284	23
38	.603 017	4.80	.961 957	.92	.641 060	5·73	.358 940	22
39	.603 305	4.82	.961 902	.93	.641 404	5.72	-358 596	21
40	9.603 594	4.80	9.961 846	.92	9.641 747	5.73	0.358 253	20
41	.603 882	4.80	.961 791	.93	.642 091	5.72	-357 909	19
42	.604 170	4.78	.961 735	.92	.642 434	5.72	-357 566	18
43	.604 457 .604 745	4.80	.961 680 .961 624	.93	.642 777 .643 120	5.72	-357 223 -356 880	17
44		4.78		.92		5.72	0.356 537	100
45 46	9.605 032 .605 319	4.78	9.961 569	.93	9.643 463 .643 806	5.72	.356 194	15
47	.605 606	4.78	.961 513	.92	.644 148	5.70	.355 852	14
48	.605 892	4.77	.961 402	.93	.644 490	5.70	-355 510	12
49	.606 179	4.78	.961 346	.93	.644 832	5.70	-355 168	11
50	9.606 465	4.77	9.961 290	.93	9.645 174	5.70	0.354 826	10
51	.606 751	4.77	.961 235	.92		5.70 5.68	-354 484	9
52	.607 036	4.75	.961 179	.93	.645 516	5.08 5.70	-354 143	8
53	.607 322	4-77 4-75	.961 123	.93 .93	.646 199	5.68	-353 801	7 6
54	.607 607	4.75	.961 067	.93	.646 540	5.68	-353 460	
55	9.607 892	4.75	9.961 011	.93	9.646 881	5.68	0.353 119	5 4
56	.608 177	4.73	.960 955	.93	.647 222	5.67	-352 778	4
57	.608 461	4.73	.960 899	.93	.647 562	5.68	-352 438	3 2
58	.608 745	4.73	.960 843	.95	.647 903	5.67	-352 097	1
59	.609 029	4.73	.960 786	.93	.648 243	5.67	-351 757	
60	9.609 313		9.960 730		9.648 583		0.351 417	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

				<b>24</b> °				
¥.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.609 313	4.50	9.960 730		9.648 583	- 6-	0.351 417	60
1	.609 597	4.73	.960 674	.93	.648 923	5.67	.351 077	59
2	.609 880	4.72 4.73	.960 618	.93	.649 263	5.67 5.65	-350 737	58
3	.610 164	4.72	.960 561	.95	.649 602	5.67	.350 398	57
4	.610 447	4.70	.960 505	.93	.649 942	5.65	.350 058	56
5	9.610 729		9.960 448		9.650 281		0.349 719	55
6	.611 012	4.72	.960 392	.93	.650 620	5.65	.349 380	54
7	.611 294	4.70 4.70	.960 335	.95 .93	.650 959	5.65 5.63	.349 041	53
8	.611 576	4.70	.960 279		.651 297	5.65	.348 703	52
9	.611 858	4.70	.960 222	.95 .95	.651 636	5.63	.348 364	51
10	9.612 140	4.68	9.960 165	1	9.651 974	5.63	0.348 026	50
11	.612 421	4.68	.960 109	.93 .95	.652 312	5.63	.347 688	49
12	.612 702	4.68	.960 052	.95	.652 650	5.63	-347 350	48
13	.612 983	4.68	-959 995	.95	.652 988	5.63	.347 012	47
14	.613 264	4.68	.959 938	.93	.653 326	5.62	.346 674	46
15	9.613 545	4.67	9.959 882	.95	9.653 663	5.62	0.346 337	45
16	.61 3 825	4.67	.959 825	.95	.654 000	5.62	.346 000	44
17	.614 105	4.67	.959 768	.95	.654 337	5.62	.345 663	43
18	.614 385	4.67	.959 711	.95	.654 674	5.62	.345 326	42
19	.614 665	4.65	.959 654	.97	.655 011	5.62	.344 989	41
20	9.614 944	4.65	9.959 596	.95	9.655 348	5.60	0.344 652	40
21	.615 223	4.65	.959 539	.95	.655 684	5.60	.344 316	39
22	.615 502	4.65	.959 482	.95	.656 020	5.60	.343 980	38
23	.615 781	4.65	.959 425	.95	.656 356	5.60	.343 644	37
24	.616 060	4.63	.959 368	.97	.656 692	5.60	.343 308	36
25	9.616 338	4.63	9.959 310	.95	9.657 028	5.60	0.342 972	35
26	.616 616	4.63	.959 253	.97	.657 364	5.58	.342 636	34
27 28	.616 894 .617 172	4.63	.959 195	.95	.657 699 .658 034	5.58	.342 301 .341 966	33
29	.617 450	4.63	.959 138 .959 080	.97	.658 369	5.58	.341 631	32 31
- 1		4.62		-95	9.658 704	5.58		
30	9.617 727 .618 004	4.62	9.959 023 .958 965	.97	.659 039	5.58	0.341 296 .340 961	30 29
31 32	.618 281	4.62	.958 908	.95	.659 373	5.57	.340 627	28
33	.618 558	4.62	.958 850	.97	.659 708	5.58	.340 292	27
34	.618 834	4.60	.958 792	.97	.660 042	5.57	.339 958	26
35	9.619 110	4.60	9.958 734	97	9.660 376	5.57	0.339 624	25
36	.619 386	4.60	.958 677	.95	.660 710	5.57	.339 290	24
37	.619 662	4.60	.958 619	-97	.661 043	5.55	.338 957	23
38	.619 938	4.60	.958 561	.97	.661 377	5.57	.338 623	22
39	.620 213	4.58	.958 503	.97	.661 710	5.55	.338 290	21
40	9.620 488	4.58	9.958 445	.97	9.662 043	5.55	0.337 957	20
41	.620 763	4.58	.958 387	.97	.662 376	5.55	.337 624	19
42	.621 038	4.58 4.58	.958 329	.97	.662 709	5.55	.337 291	18
43	.621 313	4.50	.958 271	.97	.663 042	5.55	.336 958	17
44	.621 587	4·57 4·57	.958 213	.97 .98	.663 375	5.55	.336 625	16
45	9.621 861		9.958 154	1 1	9.663 707	5.53	0.336 293	15
46	.622 135	4.57	.958 096	.97	.664 039	5.53	.335 961	14
47	.622 409	4·57 · 4·55	.958 038	.97 .98	.664 371	5·53 5·53	.335 629	13
48	.622 682	4.57	∙957 979	.97	.664 703	5·53	·335 297	12
49	.622 956	4.55	.957 921	.97	.665 035	5.52	·334 9 <sup>6</sup> 5	II
50	9.623 229	4.55	9.957 863	.98	9.665 366		0.334 634	10
5 x	.623 502	4.53	.957 804	.98	.665 698	5.53 5.52	.334 302	9
52	.623 774	4.55	.957 746	.98	.666 029	5.52	.333 971	8
53	.624 047	4.53	.957 687	.98	.666 360	5.52	.333 640	7
54	.624 319	4.53	.957 628	.97	.666 691	5.50	.333 309	6
55	9.624 591	4.53	9.957 570	.98	9.667 021	5.52	0.332 979	5
56	.624 863	4.53	.957 511	.98	.667 352	5.50	.332 648	4
57	.625 135	4.52	.957 452	.98	.667 682	5.52	.332 318	3
58	.625 406	4.52	.957 393	.97	.668 013	5.50	.331 987	2
59	.625 677	4.52	.957 335	.98	.668 343	5.50	.331 657	I
60	9.625 948		9.957 276		9.668 673		0.331 327	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
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M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
-	9.625 948		9.957 276		9.668 673		0.331 327	
1	.626 219	4.52	.957 217	.98	.669 002	5.48	.330 998	59
2	.626 490	4.52	.957 158	.98	.669 332	5.50	.330 668	58
3	.626 760	4.50	.957 099	.98 .98	.669 661	5.48 5.50	.330 339	57
4	.627 030	4.50 4.50	.957 040	.98	.669 991	5.48	.330 009	56
5	9.627 300		9.956 981	1.00	9.670 320	5.48	0.329 680	55
6	.627 570	4.50 4.50	.956 921	.98	.670 649	5.47	.329 351	54
7	.627 840	4.48	.956 862	.98	.670 977	5.48	.329 023	53
8	.628 109	4.48	.956 803	.98	.671 306	5.48	.328 694	52
9	.628 378	4.48	.956 744	1.00	.671 635	5.47	.328 365	51
10	9.628 647	4.48	9.956 684	.98	9.671 963	5.47	0.328 037	50
II	.628 916	4.48	.956 625	.98	.672 291 .672 619	5.47	.327 709	49
12 13	.629 185	4-47	.956 566 .956 506	1.00	.672 947	5-47	.327 381 .327 053	48 47
14	.629 453 .629 721	4-47	.956 447	.98	.673 274	5-45	.326 726	46
	9.629 989	4-47	9.956 387	1.00	9.673 602	5-47	0.326 398	
15 16	.630 257	4.47	.956 327	1,00	.673 929	5-45	.326 071	45 44
17	.630 524	4-45	.956 268	.98	.674 257	5-47	-325 743	43
18	.630 792	4.47	.956 208	1.00	.674 584	5-45	.325 416	42
19	.631 059	4-45	.956 148	1.00	.674 911	5.45	.325 089	41
20	9.631 326	4.45	9.956 089		9.675 237	5-43	0.324 763	40
21	.631 593	4.45	.956 029	1.00	.675 564	5.45	.324 436	39
22	.631 859	4.43	.955 969	1.00	.675 890	5.43 5.45	.324 110	38
23	.632 125	4·43 4·45	.955 909	1.00	.676 217	5.43	.323 783	37
24	.632 392	4.43	.955 849	1.00	.676 543	5-43	·323 457	36
25	9.632 658	4.42	9.955 789	1.00	9.676 869	5.42	0.323 131	35
26	.632 923	4.43	.955 729	1.00	.677 194	5-43	.322 806	34
27	.633 189	4.42	.955 669	1,00	.677 520	5.43	.322 480	33
28	.633 454	4.42	.955 609	1.02	.677 846 .678 171	5.42	.322 154	32
29	.633 719	4.42	.955 548	1.00		5.42		31
30 31	9.633 984 .634 249	4.42	9.955 488	1.00	9.678 496 .678 821	5.42	0.321 504 .321 179	30 20
32	.634 514	4.42	.955 428 .955 368	1.00	.679 146	5.42	.320 854	28
33	.634 778	4.40	.955 307	1.02	.679 471	5.42	.320 529	27
34	.635 042	4.40	.955 247	1.00	.679 795	5.40	.320 205	26
35	9.635 306	4.40	9.955 186	1.00	9.680 120	5.42	0.319 880	25
36	.635 570	4.40 4.40	.955 126	1.02	.680 444	5.40 5.40	.319 556	24
37	.635 834	4.38	.955 065	1.00	.680 768	5.40	.319 232	23
38	.636 097	4.38	.955 ∞5	1.02	.681 092	5.40	.318 908	22
39	.636 360	4.38	·954 944	1.02	.681 416	5.40	.318 584	21
40	9.636 623	4.38	9.954 883	1.00	9.681 740	5.38	0.318 260	20
4I	.636 886	4.37	.954 823	1.02	.682 063 .682 387	5.40	.317 937	19 18
42 43	.637 148 .637 411	4.38	.954 762 .954 701	1.02	.682 710	5.38	.317 613	17
44	.637 673	4.37	.954 640	1.02	.683 033	5.38	.316 967	16
45	9.637 935	4-37	9.954 579	1.02	9.683 356	5.38	0.316 644	15
46	.638 197	4.37	.954 518	1.02	.683 679	5.38	.316 321	14
47	.638 458	4.35	.954 457	1.02	.684 001	5.37	.315 999	13
48	.638 720	4.37	.954 396	1.02	.684 324	5.38	.315 676	12
49	.638 981	4-35 4-35	-954 335	1.02	.684 646	5·37 5·37	.315 354	11
50	9.639 242		9.954 274	1.02	9.684 968	5.37	0.315 032	10
51	.639 503	4.35 4.35	.954 213	1.02	.685 290	5·37 5·37	.314 710	9
52	.639 764	4.33	.954 152	1.03	.685 612	5.37	.314 388	8
53	.640 024	4.33	.954 090	1.02	.685 934 .686 255	5.35	.314 066	7
54	.640 284	4.33	.954 029	1.02		5.37	.313 745	
55	9.640 544	4.33	9.953 968	1.03	9.686 577 .686 898	5.35	0.313 423	5
56	.640 804 .641 064	4.33	.953 906 .953 845	1.02	.687 219	5.35	.313 102	4
57 58	.641 324	4.33	.953 783	1.03	.687 540	5.35	.312 460	3 2
59	.641 583	4.32	.953 722	1.02	.687 861	5.35	.312 139	ī
60	9.641 842	4.32	9.953 660	1.03	9.688 182	5.35	0.311 818	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	W.
				1				

				<b>26</b> °				
K.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Oot.	
0	9.641 842	4.32	9.953 660	1.02	9.688 182	£ 22	0.311 818	60
I	.642 101	4.32	-953 599	1.03	.688 502	5·33 5·35	.311 498	59
2	.642 360	4.30	.953 537	1.03	.688 823	5.33	.311 177	58
3	.642 618	4.32	-953 475	1.03	.689 143	5.33	.310 857	57
4	.642 877	4.30	.953 413	1.02	.689 463	5.33	.310 537	56
5 6	9.643 135	4.30	9.953 352	1.03	9.689 783	5.33	0.310 217	55
	.643 393 .643 650	4.28	.953 290	1.03	.690 103 .690 423	5.33	.309 897	54
7 8	.643 908	4.30	.953 228 .953 166	1.03	.690 742	5.32	.309 577 .309 258	53 52
9	.644 165	4.28	.953 104	1.03	.691 062	5.33	.308 938	51
10	9.644 423	4.30	9.953 042	1.03	9.691 381	5.32	0.308 619	50
11	.644 680	4.28	.952 980	1.03	.691 700	5.32	.308 300	49
12	.644 936	4.27	.952 918	1.03	.692 019	5.32	.307 981	48
13	.645 193	4.28 4.28	.952 855	1.05	.692 338	5.32	.307 662	47
14	.645 450	4.27	.952 793	1.03	.692 656	5.30 5.32	.307 344	46
15	9.645 706	-	9.952 731		9.692 975		0.307 025	45
16	.645 962	4.27 4.27	.952 669	1.03	.693 293	5.30 5.32	.306 707	44
17	.646 218	4.27	.952 606	1.03	.693 612	5.30	.306 388	43
18	.646 474	4.25	.952 544	1.05	.693 930	5.30	.306 070	42
19	.646 729	4.25	.952 481	1.03	.694 248	5.30	.305 752	41
20	9.646 984	4.27	9.952 419	1.05	9.694 566	5.28	0.305 434	40
2 I 22	.647 240 .647 494	4.23	.952 356	1.03	.694 883 .695 201	5.30	.305 117	39
23	.647 749	4.25	.952 294 .952 231	1.05	.695 518	5.28	.304 799 .304 482	37
24	.648 004	4.25	.952 168	1.05	.695 836	5.30	.304 164	36
25	9.648 258	4.23	9.952 106	1.03	9.696 153	5.28	0.303 847	35
26	.648 512	4.23	.952 043	1.05	.696 470	5.28	.303 530	34
27	.648 766	4.23	.951 980	1.05	.696 787	5.28	.303 213	33
28	.649 020	4.23 4.23	.951 917	1.05	.697 103	5.27 5.28	.302 897	32
29	.649 274	4.22	.951 854	1.05	.697 420	5.27	.302 580	31
30	9.649 527	4.23	9.951 791	1.05	9.697 736	5.28	0.302 264	30
31	.649 781	4.22	.951 728	1.05	.698 053	5.27	.301 947	29
32	.650 034	4.22	.951 665	1.05	.698 369	5.27	.301 631	28
33	.650 287	4.20	.951 602	1.05	.698 685	5.27	.301 315	27
34	.650 539	4.22	.951 539	1.05	.699 001	5.25	.300 999	
35	9.650 792 .651 044	4.20	9.951 476	1.07	9.699 316 .699 632	5.27	0.300 684 .300 368	25
36 37	.651 297	4.22	.951 412 .951 349	1.05	.699 947	5.25	.300 053	24
38	.651 549	4.20	.951 286	1.05	.700 263	5.27	.299 737	22
39	.651 800	4.18	.951 222	1.07	.700 578	5.25	.299 422	21
40	9.652 052	4.20	9.951 159	1.05	9.700 893	5.25	0.299 107	20
41	.652 304	4.20 4.18	.951 096	1.05	.701 208	5.25	.298 792	19
42	.652 555	4.10 4.18	.951 032	1.07	.701 523	5.25	.298 477	18
43	.652 806	4.18	.950 968	1.05	.701 837	5.23 5.25	.298 163	17
44	.653 057	4.18	.950 905	1.07	.702 152	5.23	.297 848	16
45	9.653 308	4.17	9.950 841	1.05	9.702 466	5.25	0.297 534	15
46	.653 558	4.17	.950 778	1.07	.702 781	5.23	.297 219	14
47 48	.653 808 .654 059	4.18	.950 714	1.07	.703 095	5.23	.296 905 .296 591	13
49	.654 309	4.17	.950 650 .950 586	1.07	.703 409 .703 722	5.22	.296 278	11
50	9.654 558	4.15		1.07		5.23	0.295 964	10
51	.654 808	4.17	9.950 522 .950 458	1.07	9.704 036 .704 350	5.23	.295 650	ه ا
52	.655 058	4.17	.950 394	1.07	.704 663	5.22	.295 337	8
53	.655 307	4.15	.950 330	1.07	.704 976	5.22	.295 024	7
54	.655 556	4.15 4.15	.950 266	1.07	.705 290	5.23	.294 710	6
55	9.655 805	4.15	9.950 202	! 1	9.705 603	5.22	0.294 397	5
56	.656 054	4.13 4.13	.950 138	1.07	.705 916	5.22 5.20	.294 084	4
57	.656 302	4.15	.950 074	1.07	.706 228	5.22	.293 772	3
58	.656 551	4.13	.950 010	1.08	.706 541	5.22	.293 459	2
59	.656 799	4.13	-949 945	1.07	.706 854	5.20	.293 146	1
60	9.657 047		9.949 881	·	9.707 166		0.292 834	0
	Cos.	D. 1".	Sin.	, D. 1".	Cot.	D. 1".	Tan.	M.
				620				

				210				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Oot.	
0	9.657 047		9.949 881	0	9.707 166		0.292 834	60
1	.657 295	4.13	.949 816	1.08	.707 478	5.20	.292 522	59
2	.657 542	4.12	.949 752	1.07	.707 790	5.20	.292 210	58
3	.657 790	4.13	.949 688	1.07	.708 102	5.20 5.20	.291 898	57
4	.658 037	4.12	.949 623	1.08	.708 414	5.20	.291 586	56
5	9.658 284	4.12	9.949 558		9.708 726		0.291 274	55
ŏ	.658 53i	4.12	.949 494	1.07	.709 037	5.18	.290 963	54
7	.658 778	4.12	.949 429	1.08	.709 349	5.20	.290 651	53
8	.659 025	4.12	.949 364	1.08	.709 660	5.18 5.18	.290 340	52
9	.659 271	4.10	.949 300	1.08	.709 971	5.18	.290 029	51
10	9.659 517	4.10	9.949 235		9.710 282		0.289 718	50
11	.659 763	4.10	.949 170	1.08	710 593	5.18 5.18	.289 407	49
12	.660 009	4.10	.949 105	1.08	.710 904	5.18	.289 096	48
13	.660 255	4.10	.949 040	1.08	.711 215		.288 785	47
14	.660 501	4.10 4.08	.948 975	1.08	.711 525	5.17 5.18	.288 475	46
15	9.660 746		9.948 910	: 1	9.711 836	-	0.288 164	45
16	.660 991	4.08	.948 845	1.08	.712 146	5.17	.287 854	44
17	.661 236	4.08	.948 780	1.08	.712 456	5.17	.287 544	43
18	.661 481	4.08 4.08	.948 715	1.08	.712 766	5.17	.287 234	42
19	.661 726	4.07	.948 650	1.10	.713 076	5.17	.286 924	41
20	9.661 970		9.948 584	1 1	9.713 386	5.17	0.286 614	40
21	.662 214	4.07	.948 519	1.08	.713 696	5.17	.286 304	39
22	.662 459	4.08	.948 454	1.08	.714 005	5.15	.285 995	38
23	.662 703	4.07	.948 388	1.10	.714 314	5.15	.285 686	37
24	.662 946	4.05 4.07	.948 323	1.10	.714 624	5.17	.285 376	36
25	9.663 190		9.948 257	1.08	9.714 933		0.285 067	35
26	.663 433	4.05	.948 192		.715 242.	5.15	.284 758	34
27	.663 677	4.07	.948 126	1.10	.715 551	5.15	.284 449	33
28	.663 920	4.05 4.05	.948 060	1.08	.715 551 .715 860	5.15 5.13	.284 140	32
29	.664 163	4.05	-947 995	1.10	.716 168	5.15	.283 832	31
30	9.664 406		9.947 929	1.10	9.716 477	5.13	0.283 523	30
31	.664 648	4.03 4.05	.947 863	1.10	.716 785	5.13	.283 215	29
32	.664 891	4.03	·947 797	1.10	.717 093	5.13	.282 907	28
33	.665 133	4.03	.947 731	1.10	.717 401	5.13	.282 599	27
34	.665 375	4.03	.947 665	1.08	.717 709	5.13	.282 291	26
35	9.665 617	4.03	9.947 600	1.12	9.718 017	5.13	0.281 983	25
36	.665 859	4.02	-947 533	1.10	.718 325	5.13	.281 675	24
37	.666 100	4.03	.947 467	1.10	.718 633	5.12	.281 367	23
38	.666 342	4.02	.947 401	1.10	.718 940	5.13	.281 060	22
39	.666 583	4.02	.947 335	1.10	.719 248	5.12	.280 752	21
40	9.666 824	4.02	9.947 269	1.10	9.719 555	5.12	0.280 445	20
4I	.667 065	4.00	.947 203	1.12	.719 862	5.12	.280 138	19
42	.667 305	4.02	.947 136	01,1	.720 169	5.12	.279 831	18
43	.667 546 .667 786	4.00	.947 070	1.10	.720 476 .720 783	5.12	.279 524	17
44		4.02	.947 004	1.12		5.10	.279 217	
45	9.668 027	4.00	9.946 937	1.10	9.721 089	5.12	0.278 911	15
46	.668 267 .668 506	3.98	.946 871 .946 804	1.12	.721 396	5.10	.278 604 .278 298	14
47 48	.668 746	4.00	.946 738	1.10	.721 702 .722 009	5.12	.276 298	13
49	.668 986	4.00	.946 671	1.12	.722 315	5.10	.277 685	11
	9.669 225	3.98	9.946 604	1.12		5.10		10
50 51	.669 464	3.98	9.940 004	1.10	9.722 621	5.10	0.277 379 .277 073	10
52	.669 703	3.98	.946 538 .946 471	1.12	.722 927 .723 232	5.08	.276 768	8
53	.669 942	3.98	.946 404	1.12	.723 538	5.10	.276 462	7
54	.670 181	3.98	.946 337	1.12	.723 844	5.10	.276 156	6
55	9.670 419	3.97	9.946 270	1.12	9.724 149	5.08	0.275 851	5
56	.670 658	3.98	.946 203	1.12	.724 454	5.08	.275 546	4
57	.670 896	3.97	.946 136	1.12	.724 754	5.10	.275 240	3
58	.671 134	3.97	.946 069	1.12	.725 065	5.08	-274 935	2
59	.671 372	3.97	.946 002	1.12	.725 370	5.08	.274 630	I
60	9.671 609	3.95	9.945 935	1.12	9.725 674	5.07	0.274 326	0
				<b></b> _				
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
				-000				

				<b>28</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.671 609	2.07	9.945 935	1.12	9.725 674	r 08	0.274 326	60
I	.671 847	3.97 3.95	.945 868	1.12	725 979	5.08 5.08	.274 021	59
2	.672 084	3.95	.945 800	1.12	.726 284	5.07	.273 716	58
3	.672 321	3.95	.945 733	1.12	.726 588	5.07	.273 412	57
4	.672 558	3.95	.945 666	1.13	.726 892	5.08	.273 108	56
5	9.672 795	3.95	9.945 598	1.12	9.727 197	5.07	0.272 803	55
· 6	.673 032	3.93	.945 531	1.12	.727 501	5.07	.272 499	54
7 8	.673 268	3.95	.945 464	1.13	.727 805	5.07	.272 195	53
9	.673 505	3.93	.945 396	1.13	.728 109	5.05	.271 891	52
-	.673 741	3.93	.945 328	1.12	.728 412	5.07	.271 588	51
II to	9.673 977 .674 213	3.93	9.945 261	1.13	9.728 716	5.07	0.271 284	50
12	.674 448	3.92	.945 193	1.13	.729 020	5.05	.270 980 .270 677	49 48
13	.674 684	3.93	.945 125 .945 058	1.12	.729 323 .729 626	5.05	.270 374	47
14	.674 919	3.92	.944 990	1.13	.729 929	5.05	.270 07 I	46
15	9.675 155	3.93	9.944 922	1.13	9.730 233	5.07	0.269 767	45
16	.675 390	3.92	.944 854	1.13	.730 535	5.03	.269 465	44
17	.675 624	3.90	.944 786	1.13	.730 838	5.05	.269 162	43
18	.675 859	3.92	.944 718	1.13	.731 141	5.05	.268 859	42
19	.676 094	3.92	.944 650	1.13	.731 444	5.05	.268 556	4I
20	9.676 328	3.90	9.944 582	1.13	9.731 746	5.03	0.268 254	40
21	.676 562	3.90	.944 514	1.13	.732 048	5.03	.267 952	39
22	.676 796	3.90 3.90	.944 446	1.13	.732 351	5.05	.267 649	38
23	.677 030	3.90	-944 377	1.13	.732 653	5.03 5.03	.267 347	37
24	.677 264	3.90	<b>.</b> 944 309	1.13	.732 955	5.03	.267 045	36
25	9.677 498	3.88	9.944 241	1.15	9.733 257	5.02	0.266 743	35
26	.677 731	3.88	.944 172	1.13	.733 558	5.02	.266 442	34
27	.677 964	3.88	.944 104	1.13	.733 860	5.03	.266 140	33
28	.678 197 .678 430	3.88	.944 036	1.15	.734 162	5.02	.265 838	32
29		3.88	.943 967	1.13	.734 463	5.02	.265 537	31
30	9.678 663 .678 895	3.87	9.943 899	1.15	9.734 764	5.03	0.265 236	30
31 32	.679 128	3.88	.943 830	1.15	.735 066	5.02	.264 934	29 28
33	.679 360	3.87	.943 761 .943 693	1.13	.735 367 .735 668	5.02	.264 633	27
34	.679 592	3.87	.943 624	1.15	735 969	5.02	.264 031	26
35	9.679 824	3.87	9.943 555	1.15	9.736 269	5.00	0.263 731	25
36	.680 056	3.87	.943 486	1.15	.736 570	5.02	.263 430	24
37	.680 <b>28</b> 8	3.87	.943 417	1.15	.736 870	5.00	.263 130	23
38	.680 519	3.85 3.85	.943 348	1.15	.737 171	5.02	.262 829	22
39	.680 750	3.87	-943 279	1.15	.737 471	5.00	.262 529	21
40	9.680 982	3.85	9.943 210		9.737 771	5.00	0.262 229	20
41	.681 213	3.83	.943 141	1.15	.738 071	5.00	.261 929	19
42	.681 443	3.85	.943 072	1.15	.738 371	5.00 5.00	.261 629	18
43	.681 674	3.85	.943 ∞3	1.15	.738 671	5.00	.261 329	17
44	.681 905	3.83	.942 934	1.17	.738 971	5.00	.261 029	16
45	9.682 135	3.83	9.942 864	1.15	9.739 271	4.98	0.260 729	15
46	.682 365 .682 595	3.83	.942 795	1.15	.739 570	5.00	.260 430	14
47 48	.682 825	3.83	.942 726	1.17	.739 870	4.98	.260 130	13
49	.683 055	3.83	.942 656 .942 587	1.15	.740 169 .740 468	4.98	.259 831	12
	9.683 284	3.82		1.17		4.98	.259 532	
50 51	.683 514	3.83	9.942 517 .942 448	1.15	9.740 767	4.98	0.259 233	10
52	.683 743	3.82	.942 378	1.17	.741 066 .741 365	4.98	.258 635	8
53	.683 972	3.82	.942 308	1.17	.741 664	4.98	.258 336	7
54	.684 201	3.82	.942 239	1.15	.741 962	4.97	.258 038	6
55	9.684 430	3.82	9.942 169	1.17	9.742 261	4.98	0.257 739	5
56	.684 658	3.80 3.82	.942 099	1.17	.742 559	4.97	.257 441	4
57	.684 887	3.80	.942 029	1.17	.742 858	4.98	.257 142	3
58	.685 115	3.80	.941 959	1.17	.743 156	4.97	.256 844	2
59	.685 343	3.80	.941 889	1.17	-743 454	4-97 4-97	.256 546	1
60	9.685 571		9.941 819	"	9.743 752	7.21	0.256 248	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
<u> </u>				010		2121	T 4011	

				290				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.685 571	3.80	9.941 819	1.17	9.743 752	4.07	0.256 248	60
I	.685 799	3.80	.941 749	1.17	.744 050	4.97 4.97	.255 950	59
2	686 027	3.78	.941 679	1.17	.744 348	4.95	.255 652	58
3	.686 254 .686 482	3.80	.941 609	1.17	.744 645	4.97	-255 355	57
4	9.686 709	3.78	.941 539	1.17	·744 943	4.95	.255 057	56
5 6	.686 936	3.78	9.941 469	1.18	9.745 240 .745 538	4.97	0.254 760	55
7	.687 163	3.78	.941 328	1.17	.745 835	4.95	.254 462	54 53
8	.687 389	3.77	.941 258	1.17	.746 132	4.95	.253 868	52
9	.687 616	3.78 3.78	.941 187	1.18	.746 429	4.95 4.95	.253 571	51
10	9.687 843	3.70	9.941 117	1.18	9.746 726	_	0.253 274	50
11	.688 069	3.77	.941 046	1.18	.747 023	4.95 4.93	.252 977	49
12	.688 295	3.77	.940 975	1.17	.747 319	4.95	.252 681	48
13	.688 521 .688 747	3.77	.940 905	1.18	.747 616	4.95	.252 384	47
14	9.688 972	3.75	.940 834	1.18	.747 913 9.748 <b>2</b> 09	4.93	.252 087	46
15 16	.689 198	3.77	9.940 763	1.17	9.748 209 .748 505	4.93	.251 791	45
17	.689 423	3.75	.940 622	1.18	.748 801	4.93	.251 199	44
18	.689 648	3.75	.940 551	1.18	.749 097	4.93	.250 903	42
19	.689 873	3.75 3.75	.940 480	1.18	-749 393	4.93	.250 607	41
20	9.690 098	_	9.940 409	1.18	9.749 689	4.93	0.250 311	40
21	.690 323	3.75 3.75	.940 338	1.18	.749 985	4.93 4.93	.250 015	39
22	.690 548	3.73	.940 267	1.18	.750 281	4.93	.249 719	38
23	690 772	3.73	.940 196	1.18	.750 576	4.93	.249 424	37
24	.690 996	3.73	.940 125	1.18	.750 872	4.92	.249 128	36
25 26	9.691 220 .691 444	3.73	9.940 054	1.20	9.751 167 .751 462	4.92	0.248 833	35
27	.691 668	3.73	.939 902	1.18	.751 757	4.92	.248 538 .248 243	34 33
28	.691 892	3.73	.939 840	1.18	.752 052	4.92	.247 948	33
29	.692 115	3.72	.939 768	1.20	·752 347	4.92	.247 653	31
30	9.692 339	3·73 3·72	9.939 697	1.20	9.752 642	4.92	0.247 358	30
31	.692 562	3.72 3.72	.939 625	1.18	·752 937	4.92 4.90	.247 063	29
32	.692 785	3.72	.939 554	1.20	.753 231	4.92	.246 769	28
33	.693 008 .693 231	3.72	.939 482	1.20	.753 526 .753 820	4.90	.246 474	27
34	9.693 453	3.70	.939 410	1.18		4.92	.246 180	26
35 36	.693 676	3.72	9.939 339 .939 267	1.20	9.754 115 .754 409	4.90	0.245 885	25
37	.693 898	3.70	.939 195	1.20	·754 703	4.90	.245 297	24 23
38	.694 120	3.70	.939 123	1.20	-754 997	4.90	.245 003	22
39	.694 342	3.70 3.70	.939 052	1.10	.755 291	4.90 4.90	.244 709	21
40	9.694 564	. 3.70	9.938 980	1.20	9.755 585	4.88	0.244 415	20
41	.694 786	3.68	.938 908	1.20	.755 878	4.00 4.90	.244 122	19
42	.695 007	3.70	.938 836	1.22	.756 172	4.88	.243 828	18
43	.695 229	3.68	.938 763 .938 691	1.20	.756 465 .756 759	4.90	.243 535	17
44	.695 450 9.695 671	3.68	9.938 619	1.20		4.88	.243 241	16
45 46	.695 892	3.68	.938 547	1.20	9.757 052 •757 345	4.88	0.242 948 .242 655	15
47	.696 113	3.68	.938 475	1.20	.757 638	4.88	.242 362	14
48	.696 334	3.68 3.67	.938 402	I.22 I.20	.757 931	4.88 4.88	.242 069	12
49	.696 554	3.68	.938 330	1.20	.758 224	4.88	.241 776	11
50	9.696 775	3.67	9.938 258	1.22	9.758 517	4.88	0.241 483	10
51	.696 995	3.67	.938 185	1.20	.758 810	4.87	.241 190	9
52	.697 215	3.67	.938 113	1.22	.759 102	4.88	.240 898	8
53 54	.697 435 .697 654	3.65	.938 040 .937 967	1.22	·759 395 ·759 687	4.87	.240 605 .240 31 3	7
	9.697 874	3.67	9.937 895	1.20		4.87		
55 56	.698 094	3.67	9.937 895	1.22	9·759 979 .760 272	4.88	0.240 02I .239 728	5
57	.698 313	3.65	·937 749	1.22	.760 564	4.87	.239 436	3
58	.698 532	3.65	.937 676	I.22 I.20	.760 856	4.87	.239 144	2
59	.698 751	3.65 3.65	.937 604	1.20	.761 148	4.87 4.85	.238 852	I
60	9.698 970	J. "J	9.937 531		9.761 439	T.~3	0.238 561	0
<u>                                     </u>	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

				<b>30</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.698 970	3.65	9.937 531	1.22	9.761 439	4.87	0.238 561	60
I	.699 189	3.63	.937 458	1.22	.761 731	4.87	.238 269	59
2	.699 407	3.65	.937 385	1.22	.762 023	4.85	·237 977	58
3	.699 626	3.63	.937 312	1.23	.762 314	4.87	.237 686	57
4	.699 844	3.63	.937 238	1.22	.762 606	4.85	·237 394	56
5	9.700 062	3.63	9.937 165	1.22	9.762 897	4.85	0.237 103	55
6	.700 280	3.63	.937 092	1.22	.763 188	4.85	.236 812	54
7	.700 498	3.63	.937 019	1.22	.763 479	4.85	.236 521	53
8	.700 716 .700 933	3.62	.936 946 .936 872	1.23	.763 770	4.85	.236 230	52
9		3.63		1.22	.764 061	4.85	.235 939	51
10	9.701 151	3.62	9.936 799	1.23	9.764 352 .764 643	4.85	0.235 648	50
11	.701 585	3.62	.936 725 .936 652	1.22	.764 933	4.83	.235 357 .235 067	49   48
13	.701 802	3.62	.936 578	1.23	.765 224	4.85	.234 776	47
14	.702 019	3.62	.936 505	1.22	.765 514	4.83	.234 486	46
	9.702 236	3.62	9.936431	1.23	9.765 805	4.85	0.234 195	
15 16	.702 452	3.60	.936 357	1.23	.766 095	4.83	.233 905	45 44
17	.702 669	3.62	.936 284	1.22	.766 385	4.83	.233 615	43
18	.702 885	3.60	.936 210	1.23	.766 675	4.83	.233 325	42
19	.703 101	3.60	.936 136	1.23	.766 965	4.83	.233 035	41
20	9.703 317	3.60	9.936 062	1.23	9.767 255	4.83	0.232 745	40
21	.703 533	3.60	.935 988	1.23	.767 545	4.83	.232 455	39
22	.703 749	3.60	.935 914	1.23	.767 834	4.82	.232 166	38
23	.703 964	3.58	.935 840	1.23	.768 124	4.83	.231 876	37
24	.704 179	3.58 3.60	.935 766	1.23	.768 414	4.83 4.82	.231 586	36
25	9.704 395		9.935 692	1.23	9.768 703		0.231 297	35
26	.704 610	3.58	.935 618	1.23	.768 992	4.82 4.82	.231 008	34
27	.704 825	3.58 3.58	.935 543	1.25	.769 281	4.83	.230 719	33
28	.705 040	3.50	.935 469	1.23	.769 571	4.82	.230 429	32
29	.705 254	3.58	.935 395	1.25	.769 860	4.80	.230 140	31
30	9.705 469	3.57	9.935 320	1.23	9.770 148	4.82	0.229 852	30
31	.705 683	3.57 3.58	.935 246	1.25	.770 437	4.82	.229 563	29
32	.705 898	3.57	.935 171	1.23	.770 726	4.82	.229 274	28
33	.706 112	3.57	.935 097	1.25	.771 015	. 4.80	.228 985	27
34	.706 326	3.55	.935 022	1.23	.771 303	4.82	.228 697	26
35	9.706 539	3.57	9.934 948	1.25	9.771 592	4.80	0.228 408	25
36	.706 753	3.57	.934 873	1.25	.771 880	4.80	.228 120	24
37	.706 967 .707 180	3.55	.934 798	1.25	.772 168	4.82	.227 832	23
38 39	.707 393	3.55	·934 723	1.23	·772 457	4.80	.227 543	22 21
	9.707 606	3.55	.934 649	1.25	·772 745	4.80	0.226 967	
40	9.707 000 .707 819	3.55	9.934 574	1.25	9.773 033	4.80	.226 679	20
41 42	.708 032	3.55	934 499	1.25	.773 321 .773 608	4.78	.226 392	19
43	.708 245	3.55	.934 424 .934 349	1.25	.773 896	4.80	.226 104	17
44	.708 458	3.55	·934 349 ·934 274	1.25	.774 184	4.80	.225 816	16
45	9.708 670	3.53	9.934 199	1.25	9.774 471	4.78	0.225 529	15
46	.708 882	3.53	.934 123	1.27	·774 759	4.80	.225 241	14
47	.709 094	3.53	.934 048	1.25	.775 046	4.78	.224 954	13
48	.709 306	3.53	.933 973	1.25	·775 333	4.78	.224 667	12
49	.709 518	3.53	.933 898	1.25	.775 621	4.80	.224 379	11
50	9.709 730	3.53	9.933 822	1.27	9.775 908	4.78	0.224 092	10
51	.709 941	3.52	·933 747	1.25	.776 195	4.78	.223 805	وا
52	.710 153	3.53	.933 671	1.27	.776 482	4.78	.223 518	8
53	.710 364	3.52	.933 596	1.25	.776 768	4.77 4.78	.223 232	7
54	.710 575	3.52	.933 520	1.27	.777 O55	4.70 4.78	.222 945	6
55	9.710 786	3.52	9.933 445	1.25	9.777 342	i i	0.222 658	5
56	.710 997	3.52	.933 369	1.27	.777 628	4.77	.222 372	4
57	.711 208	3.52	.933 293	1.27	.777 915	4.78	.222 085	3
58	.711 419	3.52 3.50	.933 217	1.27	.778 201	4·77 4·78	.221 799	2
59	.711 629	3.50	.933 141	1.25	.778 488	4.77	.221 512	I
бо	9.711839	ا	9.933 066	-5	9.778 774	'''	0.221 226	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
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				31°				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.711 839	3.52	9.933 066	1.27	9.778 774	4.77	0.221 226	60
I	.712 050	3.50	.932 990	1.27	.779 060	4.77	.220 940	59
2	.712 260	3.48	.932 914	1.27	.779 346	4.77	.220 654	58
3	.712 469 .712 679	3.50	.932 838	1.27	.779 632	4.77	.220 368	57
4		3.50	.932 762	1.28	.779 918	4.75	1	56
5 6	9.712 889 .713 098	3.48	9.932 685	1.27	9.780 203 .780 489	4.77	0.219 797	55
7	.713 308	3.50	.932 609 .932 533	1.27	.780 775	4.77	.219 511	54 53
8	.713 517	3.48	.932 457	1.27,	.781 060	4.75	.218 940	52
9	.713726	3.48	.932 380	1.28	.781 346	4.77	.218 654	51
10	9.713 935	3.48	9.932 304	1.27	9.781 631	4.75	0.218 369	50
11	.714 144	3.48	.932 228	1.27	.781 916	4.75	.218 084	49
12	.714 352	3.47	.932 151	1.28	.782 201	4.75	.217 799	48
13	.714 561	3.48	.932 075	1.27	.782 486	4.75	.217 514	47
14	.714 769	3.47 3.48	.931 998	1.28	.782 771	4·75 4·75	.217 229	46
15	9.714 978		9.931 921	1.27	9.783 056		0.216 944	45
16	.715 186	3·47 3·47	.931 845	1.28	.783 341	4·75 4·75	.216 659	44
17	.715 394	3.47	.931 768	1.28	.783 626	4.73	.216 374	43
18	.715 602	3.45	.931 691	1.28	.783 910	4.75	.216 090	42
19	.715 809	3.47	.931 614	1.28	.784 195	4.73	.215 805	41
20	9.716 017	3.45	9.931 537	1.28	9.784 479	4.75	0.215 521	40
21	.716 224 .716 432	3.47	.931 460	1.28	.784 764	4.73	.215 236	39
22 23	.716 639	3-45	.931 383	1.28	.785 048 .785 332	4.73	.214 952	38
24	.716 846	3.45	-931 300 -931 229	1.28	.785 616	4.73	.214 384	37 36
	9.717 053	3-45	9.931 152	1.28	9.785 900	4.73	0.214 100	
25 26	.717 259	3.43	.931 075	1.28	.786 184	4.73	.213 816	35 34
27	.717 466	3.45	.930 998	1.28	.786 468	4.73	.213 532	33
28	.717 673	3.45	.930 921	1.28	.786 752	4.73	.213 248	32
29	.717 879	3.43	.930 843	1.30	.787 036	4.73	.212 964	31
30	9.718 085	3.43	9.930 766	1	9.787 319	4.72	0.212 681	30
31	.718 291	3.43 3.43	.930 688	1.30	.787 603	4·73 4·72	.212 397	29
32	.718 497	3.43	.930 61 1	1.30	.787 886	4.73	.212 114	28
33	.718 703	3-43	.930 533	1.28	.788 170	4.72	.211830	27
34	.718 909	3.42	.930 456	1.30	.788 453	4.72	.211 547	26
35	9.719 114	3.43	9.930 378	1.30	9.788 736	4.72	0.211 264	25
36	.719 320	3.42	.930 300	1.28	.789 019	4.72	.210 981	24
37 38	.719 525 .719 730	3.42	.930 223	1.30	.789 302 .789 585	4.72	.210 415	23
39	.719 935	3.42	.930 067	1.30	.789 868	4.72	.210 132	21
40	9.720 140	3.42	9.929 989	1.30	9.790 151	4.72	0.209 849	20
41	.720 345	3.42	.929 911	1.30	.790 434	4.72	.209 566	19
42	.720 549	3.40	.929 833	1.30	.790 716	4.70	.209 284	18
43	.720 754	3.42	.929 755	1.30	.790 999	4.72	.209 00 i	17
44	.720 958	3.40 3.40	.929 677	1.30	.791 281	4.70 4.70	.208 719	16
45	9.721 162	3.40	9.929 599	1.30	9.791 563	4.72	0.208 437	15
46	.721 366	3.40	.929 521	1.30	.791 846	4.70	.208 154	14
47	.721 570	3.40	.929 442	1.30	.792 128	4.70	.207 872	13
48	.721 774	3.40	.929 364	1.30	.792 410	4.70	.207 590	12
49	.721 978	3.38	.929 286	1.32	.792 692	4.70	.207 308	11
50	9.722 181	3.40	9.929 207	1.30	9.792 974	4.70	0.207 026	10
51 52	.722 385 .722 588	3.38	.929 129	1.32	.793 250	4.70	.206 744 .206 462	8
52 53	.722 791	3.38	.929 050	1.30	.793 538 .793 819	4.68	.206 181	7
54	.722 994	3.38	.928 893	1.32	.794 101	4.70	.205 899	6
55	9.723 197	3.38	9.928 815	1.30	9.794 383	4.70	0.205 617	5
56	.723 400	3.38	.928 736	1.32	.794 664	4.68	.205 336	4
57	.723 603	3.38	.928 657	1.32	.794 946	4.70	.205 054	3
58	.723 805	3.37	.928 578	1.32	.795 227	4.68	.204 773	2
59	.724 007	3·37 3·38	.928 499	1.32	.795 508	4.68 4.68	.204 492	1
60	9.724 210	3.30	9.928 420	1.32	9.795 789	4.00	0.204 211	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
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				<u>32°</u>				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.724 210	2 24	9.928 420	1.30	9.795 789	4.68	0.204 211	60
1	.724 412	3.37 3.37	.928 342	1.32	.796 070	4.68	.203 930	59
2	.724 614	3·37 3·37	.928 263	1.33	.796 351	4.68	.203 649	58
3	.724 816	3.35	.928 183	1.32	.796 632	4.68	.203 368	57
4	.725 017	3.37	.928 104	1.32	.796 913	4.68	.203 087	56
5	9.725 219	3.35	9.928 025	1.32	9.797 194	4.67	0.202 806	55
6	.725 420		.927 946	1.32	·797 474	4.68	.202 526	54
7	.725 622	3⋅37 3⋅35	.927 867	1.33	-797 755	4.68	.202 245	53
8	.725 823	3·35	.927 787	1.32	.798 036	4.67	.201 964	52
9	.726 024	3.35	.927 708	1.32	.798 316	4.67	.201 684	51
10	9.726 225		9.927 629		9.798 596	4.68	0.201 404	50
11	.726 426	3.35	.927 549	1.33	.798 877	4.67	.201 123	49
12	.726 626	3.33	.927 470	I.32 I.33	.799 157	4.67	.200 843	48
13	.726 827	3.35 3.33	.927 390	1.33	·799 437	4.67	.200 563	47
14	.727 027	3·35	.927 310	1.32	.799 717	4.67	.200 283	46
15	9.727 228	1	9.927 231	_	9.799 997	4.67	0.200 003	45
16	.727 428	3.33	.927 151	1.33	.800 277		.199 723	44
17	.727 628	3.33	.927 071	1.33	.800 557	4.67 4.65	.199 443	43
18	.727 828	3.33	.926 991	1.33	.800 836	4.67	• .199 164	42
19	.728 027	3.32 3.33	.926 911	1.33	.801 116	4.67	.198 884	4I
20	9.728 227		9.926 831	1.33	9.801 396		0.198 604	40
21	.728 427	3.33	.926 751	1.33	.801 675	4.65	.198 325	39
22	.728 626	3.32	.926 671	1.33	.801 955	4.67	.198 045	38
23	728 825	3.32	.926 591	1.33	.802 234	4.65 4.65	.197 766	37
24	.729 024	3.32	.926 511	1.33	.802 513	4.65	.197 487	36
25	9.729 223	3.32	9.926 431	1.33	9.802 792		0.197 208	35
26	.729 422	3.32	.926 351	1.33	.803 072	4.67	.196 928	34
27	.729 621	3.32	.926 270	1.35	.803 351	4.65	.196 649	33
28	.729 820	3.32	.926 190	1.33	.803 630	4.65 4.65	.196 370	32
29	.730 018	3.30	.926 110	1.33	.803 909	4.63	.196 091	31
30	9.730 217	3.32	9.926 029	1.35	9.804 187		0.195 813	30
31	.730 415	3.30	.925 949	1.33	.804 466	4.65	.195 534	29
32	.730 613	3.30 •	.925 868	1.35	.804 745	4.65	.195 255	28
33	.730 811	3.30	.925 788	1.33	.805 023	4.63 4.65	.194 977	27
34	.731 009	3.30 3.28	.925 707	1.35 1.35	.805 302	4.63	.194 698	26
35	9.731 206	-	9.925 626		9.805 580		0.194 420	25
36	.731 404	3.30	.925 545	1.35	.805 859	4.65 4.63	.194 141	24
37	.731 602	3.30 3.28	.925 465	1.33	.806 137	4.63	.193 863	23
38	.731 799	3.28	925 384	1.35	.806 415	4.63	.193 585	22
39	.731 996	3.28 .	.925 303	1.35	.806 693	4.63	.193 307	21
40	9.732 193	3.28	9.925 222		9.806 971		0.193 029	20
41	.732 390	3.20	.925 141	1.35	.807 249	4.63	.192 751	19
42	.732 587	3.28 3.28	.925 060	1.35	.807 527	4.63 4.63	.192 473	18
43	.732 784	3.27	.924 979	1.35	.807 805	4.63	.192 195	17
44	.732 980	3.28	.924 897	1.37	.808 083	4.63	.191 917	16
45	9.733 177	_	9.924 816		9.808 361	4.62	0.191 639	15
46	·733 37 <b>3</b>	3.27	.924 735	1.35	.808 638	4.63	.191 362	1.4
47	.733 569	3.27 3.27	.924 654	1.35	.808 916	4.62	.191 084	13
48	.733 765	3.27	.924 572	1.35	.809 193	4.63	.190 807	12
49	.733 961	3.27	.924 491	1.37	.809 471	4.62	.190 529	11
50	9.734 157	3.27	9.924 409	1.35	9.809 748	4.62	0.190 252	10
51	·734 353	3.27	.924 328	1.35	.810 025	4.62	.189 975	9
52	·734 549	3.25	.924 246	1.37	.810 302	4.63	.189 698	8
53	734 744	3.25	.924 164	1.35	.810 580	4.62	.189 420	7
54	·734 939	3.27	.924 083	1.37	.810 857	4.62	.189 143	6
55	9.735 135	3.25	. 9.924 001		9.811 134	4.60	0.188 866	5
56	.735 330	3.25	.923 919	1.37	.811 410	4.62	.188 590	4
57	·735 525	3.23	.923 837	1.37	.811 687	4.62	.188 313	3
58	.735 719	3.25	·923 755	1.37	.811 964	4.62	.188 036	2
59	.735 914	3.25	.923 673	1.37	.812 241	4.60	.187 759	I
60	9.736 109	JJ	9.923 591	3,	9.812 517	•	0.187 483	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
I	1 200.		,			· · _ ·		

M.         Bln.         D. 1".         Cos.         D. 1".         Tan.         D. 1".         Cot.           0         9.736 109         3.23         9.923 591         1.37         812 794         4.62         0.187 483           1         .736 303         3.25         .923 590         1.37         .812 794         4.62         .186 930           2         .736 498         3.23         .923 345         1.37         .813 070         4.62         .186 930           3         .736 886         3.23         .923 345         1.37         .813 070         4.62         .186 930           4         .736 886         3.23         .923 961         1.37         .813 623         4.60         .186 930           5         9.737 080         3.23         .923 181         1.38         .813 623         4.60         .186 537           5         9.737 080         3.23         .923 181         1.38         .814 176         4.62         .186 537           7         7.37 467         3.23         .923 931         1.38         .814 176         4.60         .185 548           8         .737 661         3.23         .922 931         1.38         .814 172         4.60	-
1       .736 303       3.25       .923 509       1.37       .812 794       4.60       .186 206         2       .736 498       3.23       .923 345       1.37       .813 070       4.60       .186 930         3       .736 692       3.23       .923 263       1.37       .813 623       4.60       .186 653         4       .736 886       3.23       .923 098       1.37       .813 623       4.60       .186 653         5       9.737 080       3.23       .923 098       1.38       .814 176       4.60       .185 5824         7       .737 467       3.22       .923 098       1.38       .814 176       4.60       .185 548         8       .737 661       3.23       .922 933       1.37       .814 452       4.60       .185 548         8       .737 661       3.23       .922 933       1.37       .815 504       4.60       .185 548         8       .737 661       3.23       .922 851       1.38       .814 728       4.60       .185 548         10       9.738 048       3.22       .922 668       1.38       .815 555       4.58       .184 445         11       .738 434       3.22       .922 603       1.38<	
1         .736 303         3.25         .923 509         1.37         .812 794         4.60         .186 206           2         .736 498         3.23         .923 345         1.37         .813 070         4.62         .186 653           3         .736 692         3.23         .923 345         1.37         .813 623         4.60         .186 653           4         .736 886         3.23         .923 098         1.37         .813 623         4.60         .186 377           5         .9.737 080         3.23         .923 098         1.38         .814 176         4.60         .185 548           6         .737 467         3.22         .923 008         1.38         .814 176         4.60         .185 548           7         .737 661         3.23         .922 933         1.37         .814 452         4.60         .185 548           8         .737 661         3.23         .922 851         1.38         .815 504         4.60         .185 548           10         9.738 048         3.22         .922 768         1.37         .815 555         4.58         .184 996           11         .738 434         3.22         .922 603         1.38         .815 555         4.50<	бо
2	59
3         .736 692         3.23         .923 345         1.37         .813 347         4.60         .186 657           5         9.737 080         3.23         9.923 181         1.37         .813 623         4.60         .186 377           5         9.737 080         3.23         9.923 181         1.38         .814 176         4.60         .185 824           7         .737 467         3.22         .923 016         1.37         .814 452         4.60         .185 548           8         .737 661         3.23         .922 933         1.37         .815 004         4.60         .185 548           8         .737 661         3.23         .922 851         1.38         .814 728         4.60         .185 548           8         .737 685         3.22         .922 768         1.38         .815 004         4.60         .184 996           10         9.738 048         3.22         .922 686         1.38         .815 555         4.58         .184 445           11         .738 241         3.22         .922 663         1.38         .815 555         4.58         .184 445           12         .738 434         3.22         .922 438         1.37         .816 382         4.	58
4       .730 880       3.23       .923 203       1.37       .013 023       4.60       .186 377         5       9.737 784       3.23       9.923 181       1.38       9.813 899       4.60       .185 548         7       .737 467       3.23       .923 016       1.37       .814 452       4.60       .185 548         8       .737 661       3.23       .922 933       1.38       .814 728       4.60       .185 548         10       9.738 048       3.22       .922 686       1.37       .815 004       4.60       .184 996         11       .738 241       3.22       .922 686       1.38       .815 555       4.58       .184 445         12       .738 434       3.22       .922 663       1.38       .815 831       4.60       .184 169         13       .738 627       3.22       .922 520       1.38       .815 831       4.60       .184 169         13       .738 820       3.22       .922 248       1.38       .816 382       4.60       .183 893         14       .738 980       3.22       .922 272       1.38       .816 382       4.60       .183 618         15       9.739 9013       3.22       .922 165       <	57
6         .737 274         3.23         .923 098         1.37         .814 176         4.60         .185 824           7         .737 467         3.23         .923 016         1.38         .814 176         4.60         .185 548           8         .737 661         3.23         .922 933         1.37         .814 452         4.60         .185 548           9         .738 855         3.22         .922 851         1.38         .814 728         4.60         .184 996           10         .9.738 048         3.22         .922 686         1.37         .815 555         4.58         .184 720           11         .738 241         3.22         .922 603         1.38         .815 555         4.58         .184 720           12         .738 434         3.22         .922 603         1.38         .816 107         4.60         .184 720           13         .738 627         3.22         .922 520         1.38         .816 107         4.60         .184 780           14         .738 820         3.22         .922 355         1.38         .816 107         4.60         .183 893           15         9.739 013         3.22         .922 189         1.38         .816 933         4	56
6         .737 274         3.22         .923 098         1.37         .814 170         4.60         .185 524           7         .737 467         3.23         .922 933         1.38         .814 4728         4.60         .185 548           8         .737 661         3.23         .922 951         1.38         .815 004         4.60         .184 996           10         9.738 048         3.22         .922 686         1.37         .815 555         4.58         .184 996           11         .738 241         3.22         .922 663         1.38         .815 555         4.58         .184 720           12         .738 434         3.22         .922 663         1.38         .815 831         4.60         .184 720           13         .738 627         3.22         .922 520         1.38         .816 382         4.60         .184 745           14         .738 820         3.22         .922 243         1.37         .816 382         4.60         .183 893           14         .738 820         3.22         .922 250         1.38         .816 382         4.60         .183 618           15         9.739 013         3.22         .922 272         1.38         .816 933	55
7         .737 407         3.23         .923 933         1.38         .814 452         4.60         .185 272           9         .737 855         3.23         .922 851         1.38         .815 004         4.60         .184 996           10         9.738 048         3.22         9.922 768         1.37         .815 004         4.60         .184 996           11         .738 241         3.22         .922 686         1.37         .815 555         4.58         .184 445           12         .738 434         3.22         .922 520         1.38         .816 107         4.60         .183 93           14         .738 820         3.22         .922 520         1.38         .816 107         4.60         .184 445           13         .738 627         3.22         .922 438         1.37         .816 107         4.60         .183 618           14         .738 820         3.22         .922 355         1.38         .816 107         4.58         .183 618           15         9.739 013         3.22         .922 172         1.38         .816 933         4.60         .183 934           16         .739 206         3.20         .922 189         1.38         .817 209	54
9	53
10	52 51
11         .738 241         3.22         .922 686         1.36         .815 555         4.60         .184 445           12         .738 434         3.22         .922 603         1.38         .815 831         4.60         .184 169           13         .738 627         3.22         .922 520         1.37         .816 107         4.60         .183 893           14         .738 820         3.22         .922 438         1.37         .816 382         4.58         .183 618           15         9.739 013         3.22         .922 355         1.38         .816 933         4.60         .183 342           16         .739 206         3.20         .922 189         1.38         .816 933         4.60         .183 067           17         .739 398         3.20         .922 189         1.38         .817 209         4.58         .182 791           18         .739 590         3.20         .922 106         1.38         .817 484         4.58         .182 241           19         .739 783         3.20         .921 940         1.38         .818 335         4.58         .182 241           20         9.739 975         3.20         .921 857         1.38         .818 330 <t< th=""><th>-</th></t<>	-
12       .738 434       3.22       .922 603       1.38       .815 831       4.60       .184 169         13       .738 627       3.22       .922 520       1.37       .816 107       4.58       .183 893         14       .738 820       3.22       .922 438       1.38       .816 382       4.58       .183 618         15       9.739 013       3.22       9.922 355       1.38       .816 658       4.60       .183 342         16       .739 206       3.20       .922 189       1.38       .816 933       4.60       .183 067         17       .739 398       3.20       .922 189       1.38       .817 209       4.58       .182 791         18       .739 590       3.22       .922 106       1.38       .817 484       4.58       .182 291         19       .739 783       3.20       .922 023       1.38       .817 759       4.60       .182 241         20       9.739 975       3.20       .921 857       1.38       .818 310       4.58       .181 2241         21       .740 167       3.20       .921 857       1.38       .818 380       4.58       .181 690         22       .740 550       3.18       .921 661	50 49
13       .738 627       3.22       .922 520       1.37       .816 107       4.58       .183 893         14       .738 820       3.22       .922 438       1.38       .816 382       4.58       .183 618         15       9.739 013       3.22       .922 272       1.38       .816 638       4.58       .183 618         16       .739 206       3.22       .922 272       1.38       .816 933       4.60       .183 93         17       .739 398       3.20       .922 189       1.38       .817 209       4.60       .182 791         18       .739 590       3.22       .922 106       1.38       .817 484       4.58       .182 516         19       .739 783       3.20       .922 023       1.38       .817 759       4.60       .182 241         20       9.739 975       3.20       .921 940       1.38       .818 315       4.58       .181 690         21       .740 167       3.20       .921 857       1.38       .818 310       4.58       .181 690         22       .740 550       3.18       .921 691       1.38       .818 860       4.58       .181 140         24       .740 742       3.20       .921 607 <t< th=""><th>48</th></t<>	48
14         .738 820         3.22         .922 438         1.36         .816 382         4.60         .183 618           15         9.739 013         3.22         9.922 355         1.38         9.816 658         4.58         .183 067           16         .739 206         3.20         .922 189         1.38         .816 933         4.60         .183 067           17         .739 398         3.20         .922 189         1.38         .817 209         4.60         .182 791           18         .739 590         3.20         .922 106         1.38         .817 759         4.58         .182 516           19         .739 783         3.20         .922 023         1.38         .817 759         4.60         .182 241           20         9.739 975         3.20         .921 857         1.38         .818 335         4.58         .181 690           21         .740 167         3.20         .921 857         1.38         .818 335         4.58         .181 690           22         .740 550         3.18         .921 691         1.38         .818 860         4.58         .181 445           23         .740 550         3.20         .921 691         1.40         .819 3135	47
15         9.739 013         3.22         9.922 355         1.38         9.816 658         4.58         0.183 342           16         .739 206         3.20         .922 189         1.38         .816 933         4.60         .183 067           17         .739 398         3.20         .922 106         1.38         .817 209         4.58         .182 791           18         .739 590         3.22         .922 106         1.38         .817 484         4.58         .182 516           19         .739 783         3.20         .922 023         1.38         .817 759         4.58         .182 241           20         9.739 975         3.20         .921 857         1.38         .818 335         4.58         .181 690           21         .740 167         3.20         .921 774         1.38         .818 585         4.58         .181 690           22         .740 359         3.18         .921 691         1.40         .818 860         4.58         .181 415           23         .740 550         3.20         .921 607         1.38         .818 91 35         4.58         .181 140           24         .740 742         3.20         .921 607         1.38         .819 135	46
16         .739 206         3.20         .922 272         1.38         .816 933         4.60         .183 067           17         .739 398         3.20         .922 189         1.38         .817 209         4.58         .182 791           18         .739 590         3.22         .922 106         1.38         .817 484         4.58         .182 516           19         .739 783         3.20         .922 023         1.38         .817 759         4.58         .182 241           20         9.739 975         3.20         .921 940         1.38         .818 350         4.58         .181 965           21         .740 167         3.20         .921 774         1.38         .818 585         4.58         .181 690           22         .740 359         3.18         .921 691         1.40         .818 860         4.58         .181 415           23         .740 550         3.20         .921 607         1.38         .818 310         4.58         .181 140           24         .740 742         3.20         .921 607         1.38         .819 135         4.58         .180 865           25         .9740 934         3.18         .921 441         1.30         .819 410 <t< th=""><th>45</th></t<>	45
17         .739 398         3.20         .922 189         1.38         .817 209         .4.58         .182 791           18         .739 590         3.20         .922 106         1.38         .817 484         4.58         .182 516           19         .739 783         3.20         .922 023         1.38         .817 759         4.58         .182 241           20         9.739 975         3.20         9.921 940         1.38         9.818 035         4.58         .181 690           21         .740 167         3.20         .921 857         1.38         .818 310         4.58         .181 690           22         .740 359         3.18         .921 774         1.38         .818 865         4.58         .181 415           23         .740 550         3.20         .921 691         1.40         .819 135         4.58         .181 140           24         .740 742         3.20         .921 607         1.38         .819 135         4.58         .181 865           25         9.740 934         3.18         9.921 524         1.38         .819 410         4.58         .180 865           25         9.741 125         3.18         .921 441         1.30         .819 964	44
18         .739 590         3.22         .922 106         1.38         .817 484         4.58         .182 516           19         .739 783         3.20         .922 023         1.38         .817 759         4.60         .182 241           20         9.739 975         3.20         .921 940         1.38         .818 310         4.58         .181 965           21         .740 167         3.20         .921 857         1.38         .818 310         4.58         .181 690           22         .740 359         3.18         .921 774         1.38         .818 860         4.58         .181 415           23         .740 550         3.20         .921 607         1.38         .819 135         4.58         .180 865           25         9.740 934         3.18         .921 524         1.38         .819 410         4.57         0.180 590           26         .741 125         3.18         .921 441         1.40         .819 684         4.57         .180 316           27         .741 316         3.20         .921 357         1.38         .819 959         4.58         .180 041	43
20 9.739 975 3.20 9.921 940 1.38 9.818 035 4.58 0.181 965 21 .740 167 3.20 9.921 857 1.38 .818 310 4.58 1.81 690 22 .740 359 3.18 .921 774 1.38 .818 585 4.58 1.81 415 23 .740 550 3.20 .921 607 1.38 .818 860 4.58 1.81 140 24 .740 742 3.20 .921 607 1.38 .819 135 4.58 1.81 140 25 9.740 934 3.18 9.921 524 1.38 9.819 410 4.58 0.180 865 25 9.740 934 3.18 .921 441 1.40 .819 135 4.58 0.180 316 27 .741 316 3.20 9.921 357 1.38 .819 684 4.57 1.80 316 27 .741 316 3.20 9.921 357 1.38 .819 959 4.58 1.80 041	42
20   9.739 975   3.20   9.921 940   1.38   9.818 035   4.58   1.81 965	41
21     .740 107     3.20     .921 774     1.38     .818 585     4.58     .181 415       22     .740 359     3.18     .921 774     1.38     .818 585     4.58     .181 405       23     .740 550     3.20     .921 691     1.40     .819 135     4.58     .181 140       24     .740 742     3.20     .921 607     1.38     .819 135     4.58     .180 865       25     9.740 934     3.18     .921 524     1.38     .819 410     4.57     0.180 590       26     .741 125     3.18     .921 441     1.40     .819 684     4.57     .180 316       27     .741 316     .922 357     1.38     .819 959     4.58     .180 041       28     .740 369     .740	40
22	39
24	38
25 9.740 934 3.18 9.921 524 1.38 9.819 410 4.58 0.180 590 26 .741 125 3.18 9.921 441 1.40 8.19 684 4.58 1.80 316 27 .741 316 3.20 9.921 357 1.38 819 959 4.58 1.80 641	37
25 9.745 934 3.18 9.921 441 1.38 8.19 684 4.57 1.80 316 27 7.741 316 3.20 9.921 357 1.38 8.19 959 4.58 1.80 941	35
27 .741 316 3.18 .921 357 1.38 .819 959 4.58 .180 941	35
3.26   3.37   1.38   3.99   4.58   3.26	34
	33 32
1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1	31
20 0.741.880 3.17 0.021.107 1.30 0.820.782 4.30 0.170.217	30
1 27   742 080   3.10   021 022   1.40   821 057   4.37   178 042	29
1 22   742 271   3.10   .020 030   1.40   .821 332   4.50   .178 668	28
33 742 462 3.10 920 856 1.30 821 606 4.57 178 394	27
34 .742 652 3.17 .920 772 1.40 .821 880 4.57 .178 120 1.40 .821 880 4.57	26
35   9.742 842   318   9.920 688   40   9.822 154   48   0.177 846	25
36 .743 033 3.17 .920 604 1.40 .822 429 4.50 .177 571	24
37   .743 223   3 1   .920 520   .40   .822 703   .67   .177 297	23
1 36   .743 413   2 15   .920 430   1 40   .822 977   4 57   .177 023	22
39   .743 602   3.17   .920 352   1.40   .823 251   4.55   .170 749	21
40   9.743 792   3 m   9.920 268   140   9.823 524   4 m   0.176 476	20
41   .743 982   3.15   .920 184   1.42   .823 798   .67   .176 202	19
42   .744 171   3.17   .920 099   1.40   .824 345   4.55   .175 928	18
43 -/44 301 3.15 920 015 1.40 824 610 4.57 1.75 381	17 16
45 0744 720 3.13 0 010 846 1.42 0 824 802 4.57 0 175 107	
46   .744 028   3.15   .010 762   1.40   .825 166   4.55   .174 824	15 14
47   .745 117   3·15   .010 677   1·42   .825 430   4·55   .174 561	13
48   .745 306   3.15   .010 503   1.40   .825 713   4.57   .174 287	12
40 .745 494 3.13 010 508 1.42 825 986 4.35 1.74 014	II
50 9.745 683 3.15 9.919 424 1.40 9.826 259 4.55 0.173 741	10
51 .745 871 3.13 919 339 339 826 532 4.33 1.173 468	9
52   .746 060   .513   .919 254   .74   .826 805   .733   .173 195	8
53   .740 248   3.12   .919 109   1.40   .827 078   4.55   .172 922	7 6
54 .740 430 3.13 .919 005 1.42 .027 351 4.55 .172 049	
55   9.746 624   3.7,   9.919 000   1.2   9.827 624   2.7   0.172 376	5
50   .740 612   3.12   .916 915   1.42   .627 697   4.55   .172 103	4
57   .740 999   212   .918 830   142   .828 170   452   .171 830	3
50   ·/4/10/   3.12   ·910/45   1.43   ·020 442   4.55   ·1/1 550	2 I
59   1/4/ 3/4   3.13   1918 039   1.42   1.020 /15   4.53   1.7/ 205	
60         9.747 562         9.918 574         9.828 987         0.171 013	0
Cos. D. 1". Sin. D. 1". Cot. D. 1". Tan.	M.

52 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS.

				<b>34</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.747 562	3.12	9.918 574		9.828 987		0.171 013	<b>6</b> 0
I	·747 749	3.12	.918 489	I.42 I.42	.829 260	4·55 4·53	.170 740	59
2	.747 936 .748 123	3.12	.918 404 .918 318	1.43	.829 532	4.55	.170 468	58
3 4	.748 310	3.12	.918 233	1.42	.829 805 .830 077	4.53	.170 195 .169 923	57 56
5	9.748 497	3.12	9.918 147	1.43	9.830 349	4.53	0.169 651	
6	.748 683	3.10	.918 062	1.42	.830 621	4.53	.169 379	55 54
7	.748 870	3.12	.917 976	1.43	.830 893	4.53	.169 107	53
8	.749 056	3.10 3.12	.917 891	1.42 1.43	.831 165	4.53	.168 835	52
9	.749 243	3.10	.917 805	1.43	.831 437	4·53 4·53	.168 563	51
10	9.749 429	3.10	9.917 719	1.42	9.831 709	4.53	0.168 291	50
111	.749 615	3.10	.917 634	1.43	.831 981	4.53	.168 019	49
12	.749 801 .749 987	3.10	.917 548 .917 462	1.43	.832 253 .832 525	4.53	.167 747 .167 475	48
14	.750 172	3.08	.917 376	1.43	.832 525 .83 <b>2-</b> 796	4.52	.167 204	47 46
15	9.750 358	3.10	9.917 290	1.43	9.833 068	4.53	0.166 932	45
16	.750 543	3.08	.917 204	1.43	.833 339	4.52	.166 661	44
17	.750 729	3.10 3.08	.917 118	1.43	.833 611	4.53	.166 389	43
18	.750 914	3.08	.917 032	1.43 1.43	.833 882	4.52 4.53	.166 118	42
19	.751 099	3.08	.916 946	1.45	.834 154	4.52	.165 846	41
20	9.751 284	3.08	9.916 859	1.43	9.834 425	4.52	0.165 575	40
2I 22	.751 469	3.08	.916 773	1.43	.834 696	4.52	.165 304	39
23	.751 654 .751 839	3.08	.916 687 .916 600	1.45	.834 967 .835 238	4.52	.165 033 .164 762	38 37
24	.752 023	3.07	.916 514	1.43	.835 509	4.52	.164 491	36
25	9.752 208	3.08	9.916 427	1.45	9.835 780	4.52	0.164 220	35
26	.752 392	3.07	.916 341	1.43	.836 051	4.52	.163 949	34
27	.752 576	3.07 3.07	.916 254	1.45	.836 322	4.52 4.52	.163 678	33
28	.752 760	3.07	.916 167	I.45 I.43	.836 593	4.52	.163 407	32
29	.752 944	3.07	.916 081	1.45	.836 864	4.50	.163 136	31
30	9.753 128	3.07	9.915 994	1.45	9.837 134	4.52	0.162 866	30
31 32	.753 312 .753 495	3.05	.915 907 .915 820	1.45	.837 405 .837 675	4.50	.162 595 .162 325	29
33	.753 679	3.07	.915 733	1.45	.837 946	4.52	.162 054	27
34	.753 862	3.05 3.07	.915 646	1.45	.838 216	4:50	.161 784	26
35	9.754 046	3.05	9.915 559	1.45	9.838 487	4.52	0.161 513	25
36	.754 229	3.05	.915 472	I.45 I.45	.838 757	4.50 4.50	.161 243	24
37	.754 412	3.05	.915 385	1.47	.839 027	4.50	.160 973	23
38 39	·754 595 ·754 778	3.05	.915 297 .915 210	1.45	.839 <b>2</b> 97	4.52	.160 703	22 21
	9.754 960	3.03		1.45	.839 568	4.50	.160 432	
40 41	.755 143	3.05	9.915 123 .915 035	1.47	9.839 838 .840 108	4.50	0.160 162	20 19
42	.755 326	3.05	.914 948	1.45	.840 378	4.50	.159 622	18
43	.755 508	3.03 3.03	.914 860	I.47 I.45	.840 648	4.50 4.48	.159 352	17
44	.755 690	3.03	.914 773	1.47	.840 91 7	4.50	.159 083	16
45	9.755 872	3.03	9.914 685	1.45	9.841 187	4.50	0.158 813	15
46	.756 054 .756 236	3.03	.914 598	1.47	.841 457	4.50	.158 543	14
47 48	.756 418	3.03	.914 510 .914 422	1.47	.841 727 .841 996	4.48	.158 273 .158 004	13
49	.756 600	3.03	.914 334	1.47	.842 266	4.50	.157 734	111
50	9.756 782	3.03	9.914 246	1.47	9.842 535	4.48	0.157 465	10
5 T	.756 963	3.02 3.02	.914 158	1.47	.842 805	4.50	.157 195	9
52	.757 144	3.03	.914 070	I.47 I.47	.843 074	4.48 4.48	.156 926	8
53	.757 326	3.02	.913 982	1.47	.843 343	4.48 4.48	.156 657	7 6
54	.757 507 9.757 688	3.02	.913 894	1.47	.843 612	4.50	.156 388	
55 56	9.757 889	3.02	9.913 806	1.47	9.843 882	4.48	0.156 118	5
57	.758 050	3.02	.913 718 .913 630	1.47	.844 151 .844 420	4.48	.155 849 .155 580	4 3
58	.758 230	3.00	.913 541	1.48	.844 689	4.48	.155 311	2
59	.758 411	3.02 3.00	.913 453	I.47 I.47	.844 958	4.48	.155 042	ī
60	9.758 591	J.20	9.913 365	4/	9.845 227	4.48	0.154 773	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	X.
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M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
-	9.758 591		9.913 365	- 0	9.845 227		0.154 773	60
1	.758 772	3.02 3.00	.913 276	1.48 1.48	.845 496	4.48	.154 504	59
2	.758 952	3.00	.913 187	1.47	.845 764	4.47 4.48	.154 236	58
3	.759 132	3.00	.913 099	1.48	.846 033	4.48	.153 967	57
4	.759 312	3.00	.913 010	1.47	.846 302	4.47	.153 698	56
5	9.759 492	3.00	9.912 922	1.48	9.846 570	4.48	0.153 430	55
6	.759 672 .759 852	3.00	.912 833	1.48	.846 839	4.48	.153 161	54
7 8	.760 031	2.98	.912 744 .912 655	1.48	.847 108 .847 376	4-47	.152 892 .152 624	53 52
9	.760 211	3.00	.912 566	1.48	.847 644	4.47	.152 356	51 S
10	9.760 390	2.98	9.912 477	1.48	9.847 913	4.48	0.152 087	50
11	.760 569	2.98	.912 388	1.48	.848 181	4.47	.151 819	49
12	.760 748	2.98 2.98	.912 299	1.48	.848 449	4.47	.151 551	48
13	.760 927	2.98	.912 210	1.48 1.48	.848 717	4.47 4.48	.151 283	47
14	.761 106	2.98	.912 121	1.50	.848 986	4.47	.151 014	46
15	9.761 285	2.98	9.912 031	1.48	9.849 254	4.47	0.150 746	45
16	.761 464	2.97	.911 942	1.48	.849 522	4-47	.150 478	44
17	.761 642	2.98	.911 853	1.50	.849 790	4.45	.150 210	43
18	.761 821 .761 999	2.97	.911 763	1.48	.850 057 .850 325	4-47	.149 943	42
19		2.97	.911 674	1.50		4.47	.149 675	4I
20 21	9.762 177 .762 356	2.98	9.911 584	1.48	9.850 593 .850 861	4.47	.149 407	40
21	.762 534	2.97	.911 495 .911 405	1.50	.851 129	4.47	.149 139	39 38
23	.762 712	2.97	.911 315	1.50	.851 396	4-45	.148 604	37
24	.762 889	2.95	.911 226	1.48	.851 664	4-47	.148 336	36
25	9.763 067	2.97	9.911 136	1.50	9.851 931	4.45	0.148 069	35
26	.763 245	2.97	.911 046	1.50	.852 199	4.47	.147 801	34
27	.763 422	2.95 2.97	.910 956	1.50 1.50	.852 466	4.45	.147 534	33
28	.763 600	2.95	.910 866	1.50	.852 733	4-45 4-47	.147 267	32
29	.763 777	2.95	.910 776	1.50	.853 001	4.45	.146 999	31
30	9.763 954	2.95	9.910 686	1.50	9.853 268	4-45	0.146 732	30
31	.764 131	2.95	.910 596	1.50	.853 535	4.45	.146 465	29
32	.764 308 .764 485	2.95	.910 506 .910 415	1.52	.853 802 .854 069	4.45	.146 198	28
33 34	.764 662	2.95	.910 325	1.50	.854 336	4.45	.145 931	27
35	9.764 838	2.93	9.910 235	1.50	9.854 603	4.45	0.145 397	1
35	.765 015	2.95	.910 144	1.52	.854 870	4.45	.145 130	25 24
37	.765 191	2.93	.910 054	1.50	.855 137	4.45	.144 863	23
38	.765 367	2.93	.909 963	1.52	.855 404	4.45	.144 596	22
39	.765 544	2.95 2.93	.909 873	1.50 1.52	.855 671	4.45	.144 329	21
40	9.765 720	2.93	9.909 782	1.52	9.855 938	4-45	0.144 062	20
41	.765 896	2.93	.909 691	1.50	.856 204	4·43 4·45	.143 796	19
42	.766 072	2.92	.909 601	1.52	.856 471	4.43	.143 529	18
43	.766 247 .766 423	2.93	.909 510	1.52	.856 737	4.45	.143 263	17
44		2.92	.909 419	1.52	.857 004	• 4-43	.142 996	16
45	9.766 598 .766 774	2.93	9.909 328 .909 237	1.52	9.857 270	4-45	0.142 730	15
46 47	.766 949	2.92	.909 237	1.52	.857 537 .857 803	4.43	.142 463 .142 197	14
47	.767 124	2.92	.909 055	1.52	.858 069	4.43	.141 931	13 12
49	.767 300	2.93	.908 964	1.52	.858 336	4.45	.141 664	111
50	9.767 475	2.92	9.908 873	1.52	9.858 602	4.43	0.141 398	10
51	.767 649	2.90	.908 781	1.53	.858 868	4.43	.141 132	و
52	.767 824	2.92 2.92	.908 690	1.52 1.52	.859 134	4.43	.140 866	8
53	.767 999	2.90	.908 599	1.52	.859 400	4·43 4·43	.140 600	7 6
54	.768 173	2.92	.908 507	1.52	.859 666	4.43	.140 334	6
55	9.768 348	2.90	9.908 416	1.53	9.859 932	4.43	0.140 068	5
56	.768 522	2.92	.908 324	1.52	.860 198	4-43	.139 802	4
57	.768 697 .768 871	2.90	.908 233 .908 141	1.53	.860 464 .860 730	4.43	.139 536	3 2
58 59	.769 045	2.90	.908 049	1.53	.860 995	4.42	.139 270 .139 005	1
60	9.769 219	2.90	9.907 958	1.52	9.861 261	4-43	0.138 739	0
		D 1"		D 3"		- To 3		
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

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M.	8in.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.769 219	2.90	9.907 958	1.52	9.861 261	4.42	0.138 739	бо
I	.769 393	2.88	.907 866	I.53	.861 527	4·43 4·42	.138 473	59
2	.769 566	2.90	.907 774	1.53	.861 792	4.43	.138 208	58
3	.769 740	2.88	.907 682	1.53	.862 058	4.42	.137 942	57
4	.769 913	2.90	.907 590	1.53	.862 323	4-43	.137 677	56
5	9.770 087	2.88	9.907 498	1.53	9.862 589	4.42	0.137 411	55
7	.770 260	2.88	.907 406	1.53	.862 854	4.42	.137 146	54
8	.770 433 .770 606	2.88	.907 314 .907 222	1.53	.863 119 .863 385	4.43	.136 881 .136 615	53 52
و	.770 779	2.88	.907 129	1.55	.863 650	4.42	.136 350	51 51
10	9.770 952	2.88	9.907 037	1.53	9.863 915	4.42	0.136 085	50
11	.771 125	2.88 2.88	.906 945	1.53	.864 180	4.42	.135 820	49
12	.771 298	2.88 2.87	.906 852	1.55	.864 445	4.42	.135 555	48
13	.771 470	2.88	.906 760	1.53	.864 710	4.42 4.42	.135 290	47
14	.771 643	2.87	.906 667	1.53	.864 975	4.42	.135 025	46
15	9.771 815	2.87	9.906 575	1.55	9.865 240	4.42	0.134 760	45
16	.771 987	2.87	.906 482	1.55	.865 505	4.42	.134 495	44
17	.772 159	2.87	.906 389	1.55	.865 770	4.42	.134 230	43
19	.772 331 .772 503	2.87	.906 296 .906 204	1.53	.866 035 .866 300	4.42	.133 965	42
20	9.772 675	2.87		1.55	9.866 564	4.40	.133 700	4I
21	.772 847	2.87	9.906 111	1.55	.866 8 <b>2</b> 9	4.42	0.133 436	40
22	.773 018	2.85	.905 925	1.55	.867 094	4.42	.133 171	39 38
23	.773 190	2.87 2.85	.905 832	1.55	.867 358	4.40	.132 642	37
24	.773 361	2.85 2.87	.905 739	1.55	.867 623	4.42	.132 377	36
25	9.773 533	2.85	9.905 645	1.57	9.867 887	4.40	0.132 113	35
26	.773 704	2.85	.905 552	1.55	.868 152	4.42 4.40	.131 848	34
27	.773 875	2.85	.905 459	1.55	.868 416	4.40	.131 584	33
28	.774 046	2.85	.905 366	1.57	.868 680	4.42	.131 320	32
29	.774 217	2.85	.905 272	1.55	.868 945	4.40	.131 055	31
30	9.774 388	2.83	9.905 179	1.57	9.869 209	4.40	0.130 791	30
31 32	.774 558 .774 729	2.85	.905 085 .904 992	1.55	.869 473 .869 737	4.40	.130 527 .130 263	29 28
33	.774 899	2.83	.904 898	1.57	.870 001	4.40	.129 999	27
34	.775 070	2.85 2.83	.904 804	1.57	.870 265	4.40	.129 735	26
35	9.775 240		9.904 711	1.55	9.870 529	4.40	0.129 471	25
36	.775 410	2.83 2.83	.904 617	1.57	.870 793	4.40	.129 207	24
37	.775 580	2.83	.904 523	1.57	.871 057	4.40	.128 943	23
38	.775 750	2.83	.904 429	1.57	.871 321	4.40 4.40	.128 679	22
39	.775 920	2.83	.904 335	1.57	.871 585	4.40	.128 415	21
40	9.776 090	2.82	9.904 241	1.57	9.871 849	4.38	0.128 151	20
41	.776 259 .776 429	2.83	.904 147	1.57	.872 112	4.40	.127 888	19
42 43	.776 598	2.82	.904 053 .903 959	1.57	.872 376 .872 640	4.40	.127 624 .127 360	18
44	.776 768	2.83	.903 864	1.58	.872 903	4.38	.127 097	16
45	9.776 937	2.82	9.903 770	1.57	9.873 167	4.40	0.126 833	15
46	.777 106	2.82 2.82	.903 676	1.57	.873 430	4.38	.126 570	14
47	·777 275	2.82 2.82	.903 581	1.58	.873 694	4.40	.126 306	13
48	·777 444	2.82	.903 487	1.57 1.58	.873 957	4.38 4.38	.126 043	12
49	.777 613	2.80	.903 392	1.57	.874 220	4.40	.125 780	11
50	9.777 781	2.82	9.903 298	1.58	9.874 484	4.38	0.125 516	10
51	.777 950 .778 119	2.82	.903 203	1.58	.874 747	4.38	.125,253	9
52 53	.778 287	2.80	.903 108 .903 014	1.57	.875 010 .875 273	4.38	.124 990	8
54	.778 455	2.80	.903 014	1.58	.875 537	4.40	.124 727 .124 463	7
55	9.778 624	2.82	9.902 824	1.58	9.875 800	4.38	0.124 200	
56	.778 792	2.80	.902 729	1.58	.876 063	4.38	.123 937	5
57	.778 960	2.80 2.80	.902 634	1.58	.876 326	4.38	.123 674	3
58	.779 128	2.78	.902 539	1.58	.876 589	4.38	.123411	2
59	·779 295	2.80	.902 444	1.58	.876 852	4.38	.123 148	I
60	9.779 463		9.902 349	)	9.877 114	4-37	0.122 886	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
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				310				
M.	8in.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	<b> </b>
0	9.779 463	202	9.902 349	- (-	9.877 114		0.122 886	бо
I	.779 631	2.80	.902 253	1.60	.877 377	4.38	.122 623	59
2	.779 798	2.78 2.80	.902 158	1.58	.877 640	4.38	.122 360	58
3	.779 966	2.78	.902 063	1.60	.877 903	4.38	.122 097	57
4	.780 133	2.78	.901 967	1.58	<b>.878</b> 165	4-37 4-38	.121 835	56
5	9.780 300		9.901 872		9.878 428		0.121 572	55
6	.780 467	2.78	.901 776	1.60	.878 691	4.38	.121 309	54
7	.780 634	2.78	.901 681	1.58	.878 953	4.37	.121 047	53
8	.780 801	2.78	.901 585	1.60	.879 216	4.38	.120 784	52
9	.78o 968	2.78	.901 490	1.58	.879 478	4-37	.120 522	51
10	9.781 134	2.77	9.901 394		9.879 741	4.38	0.120 259	50
111	.781 301	2.78	.901 298	1.60	.880 003	4.37	.119 997	49
12	.781 468	2.78	.901 202	1.60	.880 265	4.37	.119 735	48
13	.781 634	2.77	.901 106	1.60	.880 528	4.38	.119 472	47
14	.781 800	2.77	.901 010	1.60	.880 790	4-37	.119 210	46
15	9.781 966	2.77	9.900 914		9.881 052	4-37	0.118 948	45
16	.782 132	2.77	.900 818	1.60	.881 314	4-37	.118 686	44
17	.782 298	2.77	.900 722	1.60	.881 577	4.38	.118 423	43
18	.782 464	2.77	.900 626	1.60	.881 839	4.37	.118 161	42
19	.782 630	2.77	.900 529	1.62	.882 101	4-37	.117 899	41
20	9.782 796	2.77	9.900 433	1.60	9.882 363	4-37	0.117 637	40
21	.782 961	2.75	.900 337	1.60	.882 625	4.37	.117 375	39
22	.783 127	2.77	.900 240	1.62	.882 887	4-37	.117113	38
23	.783 292	2.75	.900 144	1.60	.883 148	4-35	.116 852	37
24	.783 458	2.77	.900 047	1.62	.883 410	4.37	.116 590	36
25	9.783 623	2.75	9.899 951	1.60	9.883 672	4-37	0.116 328	8 I
26	.783 788	2.75	.899 854	1.62	.883 934	4-37	.116 066	35 34
27	.783 953	2.75	.899 757	1.62	.884 196	4-37	.115 804	33
28	.784 118	2.75	.899 660	1.62	.884 457	4-35	.115 543	32
20	.784 282	2.73	.899 564	1.60	.884 719	4.37	.115 281	31
30	9.784 447	2.75	9.899 467	1.62	9.884 980	4-35	0.115 020	30
31	.784 612	2.75	.899 370	1.62	.885 242	4-37	.114 758	29
32	.784 776	2.73	.899 273	1.62	.885 504	4-37	.114 496	28
33	.784 941	2.75	.899 176	1.62	.885 765	4-35	.114 235	27
34	.785 105	2.73	.899 078	1.63	.886 <b>026</b>	4-35	.113 974	26
35	9.785 269	2.73	9.898 981	1.62	9.886 288	4-37	0.113 712	25
36	.785 433	2.73	.898 884	1.62	.886 549	4-35	.113451	24
37	.785 597	2.73	.898 787	1.62	.886 811	4-37	.113 189	23
38	.785 761	2.73	.898 689	1.63	.887 072	4-35	.112 928	22
39	.785 925	2.73	.898 592	1.62	.887 333	4-35	.112 667	21
40	9.786 089	2.73	9.898 494	1.63	9.887 594	4-35	0.112406	20
41	.786 252	2.72	.898 397	1.62	.887 855	4-35	.112 145	19
42	.786 416	2.73	.898 299	1.63	.888 116	4-35	.111 884	18
43	.786 579	2.72	.898 202	1.62	.888 378	4-37	.111 622	17
44	.786 742	2.72	.898 104	1.63	.888 639	4.35	.111 361	16
45	9.786 906	2.73	9.898 006	1.63	9.888 900	4-35	0.111100	15
46	.787 069	2.72	.897 908	1.63	.889 161	4-35	.110839	14
47	.787 232	2.72	.897 810	1.63	.889 421	4-33	.110 579	13
48	.787 395	2.72	.897 712	1.63	.889 682	4-35	.110 318	12
49	.787 557	2.70	.897 614	1.63	.889 943	4-35	.110 057	11
50	9.787 720	2.72	9.897 516	1.63	9.890 204	4-35	0.109 796	10
51	.787 883	2.72	.897 418	1.63	.890 465	4.35	.109 535	10
52	.788 045	2.70	.897 320	1.63	.890 725	4-33	.109 275	8
53	.788 208	2.72	.897 222	1.63	.890 986	4-35	.109 014	
54	.788 370	2.70	.897 123	1.65	.891 247	4-35	.108 753	7
55	9.788 532	2.70	9.897 025	1.63	9.891 507	4.33	0.108 493	5
56	.788 694	2.70	.896 926	1.65	.891 768	4-35	.108 232	4
57	.788 856	2.70	.896 828	1.63	.892 028	4-33	.107 972	3
58	.789 018	2.70	.896 729	1.65	.892 289	4-35	.107 711	2
59	.789 180	2.70	.896 63í	1.63	.892 549	4.33	.107 451	I
60	9.789 342	! 2.70 	9.896 532	; ••••	9.892 810	4-35	0.107 190	0
		D 1"		<del></del>	<u></u>	- D 3#	'————	
<u></u>	Cos.	. D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

## 56 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS.

				<b>38</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.789 342	2.50	9.896 532	1.65	9.892 810	4.22	0.107 190	60
I	.789 504	2.70 2.68	.896 433	1.63	.893 0 <b>7</b> 0	4-33 4-35	.106 930	59
2	.789 665	2.70	.896 335	1.65	.893 331	4.33	.106 669	58
3	.789 827	2.68	.896 236	1.65	.893 591	4-33	.106 409	57
4	.789 988	2.68	.896 137	1.65	.893 851	4.33	.106 149	56
5	9.790 149	2.68	9.896 038	1.65	9.894 111	4-35	0.105 889	55
6	.790 310	2.68	.895 939	1.65	.894 372	4.33	.105 628	54
7 8	.790 471	2.68	.895 840 .895 741	1.65	.894 632 .894 892	4-33	.105 368	53
اوا	.790 632 .790 793	2.68	.895 641	1.67	.895 152	4.33	.104 848	52 51
-		2.68	9.895 542	1.65	9.895 412	4.33	0.104 588	
10	9.790 954 .791 115	2.68	.895 443	1.65	.895 672	4-33	.104 328	50 49
12	.791 275	2.67	.895 343	1.67	.895 932	4.33	.104 068	48
13	.791 436	2.68	.895 244	1.65	.896 192	4.33	.103 808	47
14	.791 596	2.67	.895 145	1.65	.896 452	4.33	.103 548	46
15	9.791 757	2.68	9.895 045	1.67	9.896 712	4.33	0.103 288	45
16	.791 917	2.67	.894 945	1.67	.896 971	4.32	.103 029	44
17	.792 077	2.67 2.67	.894 846	1.65	.897 231	4.33	.102 769	43
18	.792 237	2.67 2.67	.894 746	1.67	.897 491	4·33 4·33	.102 509	42
19	·792 397	2.67	.894 646	1.67	.897 751	4.32	.102 249	41
20	9.792 557	2.65	9.894 546	1.67	9.898 010	4.32	0.101 990	40
21	.792 716	2.67	.894 446	1.67	.898 270	4-33	.101 730	39
22	.792 876	2.65	.894 346	1.67	.898 530	4.32	.101 470	38
23	.793 035	2.67	.894 246	1.67	.898 789	4.33	.101 211	37
24	.793 195	2.65	.894 146	1.67	.899 049	4.32	.100 951	36
25	9.793 354	2.67	9.894 046	1.67	9.899 308	4.33	0.100 692	35
26	.793 514	2.65	.893 946	1.67	.899 568 .899 827	4.32	.100 432	34
27 28	.793 673 .793 832	2.65	.893 846 .893 745	1.68	.900 087	4.33	.100 173	33 32
29	.793 991	2.65	.893 645	1.67	.900 346	4.32	.099 654	31
-	9.794 150	2.65	9.893 544	1.68	9.900 605	4.32	0.099 395	30
30 31	.794 308	2.63	.893 444	1.67	.900 864	4.32	.099 136	29
32	.794 467	2.65	.893 343	1.68	.901 124	4-33	.098 876	28
33	.794 626	2.65	.893 243	1.67	.901 383	4.32	.098 617	27
34	.794 784	2.63 2.63	.893 142	1.68	.901 642	4.32 4.32	.098 358	26
35	9.794 942	2.65	9.893 041	1.68	9.901 901		0.098 099	25
36	.795 101	2.63	.892 940	1.68	.902 160	4.32 4.33	.097 840	24
37	.795 259	2.63	.892 839	1.67	.902 420	4.32	.097 580	23
38	.795 417	2.63	.892 739	1.68	.902 679	4.32	.097 321	22
39	·795 575	2.63	.892 638	1.70	.902 938	4.32	.097 062	21
40	9.795 733	2.63	9.892 536	1.68	9.903 197	4.32	0.096 803	20
41	.795 891	2.63	.892 435	1.68	.903 456	4.30	.096 544	19
42	.796 049 .796 206	2.62	.892 334 .892 233	1.68	.903 714	4.32	.096 286	18
43 44	.796 364	2.63	.892 132	1.68	.903 973 .904 232	4.32	.095 768	16
	9.796 521	2.62	9.892 030	1.70	9.904 491	4.32	0.095 509	15
45 46	.796 679	2.63	.891 929	1.68	.904 750	4.32	.095 250	14
47	.796 836	2.62	.891 827	1.70	.905 008	4.30	.094 992	13
48	.796 993	2.62	.891 726	1.68	.905 267	4.32	.094 733	12
49	.797 150	2.62 2.62	.891 624	1.70	.905 526	4.32	.094 474	11
50	9.797 307		9.891 523	l i	9.905 785	4.32	0.094 215	10
51	.797 464	2.62 2.62	.891 421	1.70	.906 043	4.30 4.32	.093 957	9
52	.797 621	2.60	.891 319	1.70	.906 302	4.32	.093 698	8
53	·797 777	2.62	.891 217	1.70	.906 560	4.32	.093 440	7 6
54	·797 934	2.62	.891 115	1.70	.906 819	4.30	.093 181	
55	9.798 091	2.60	9.891 013	1.70	9.907 077	4.32	0.092 923	5
56	.798 247	2.60	.890 911	1.70	.907 336	4.30	.092 664	4
57	.798 403 .798 560	2.62	.890 809	1.70	.907 594	4.32	.092 406	3 2
58	.798 500	2.60	.890 707 .890 605	1.70	.907 853 .908 111	4.30	.092 147	1
59	9.798 872	2.60		1.70	-	4.30	1	
60		l———	9.890 503		9.908 369		0.091 631	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

## LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS. 57

				_ <b>39</b> º				
K.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.798 872	2.60	9.890 503'	1.72	9.908 369	4.22	0.091 631	60
I	.799 028	2.60	.890 400	1.70	.908 628	4.32 4.30	.091 372	59
2	.799 184	2.58	.890 298	1.72	.908 886	4.30	.091 114	58
3	. •799 339	2.60	.890 195	1.70	.909 144	4.30	.090 856	57
4	•799 495	2.60	.890 093	1.72	.909 402	4.30	.090 598	56
5 6	9.799 651	2.58	9.889 990	1.70	9.909 660	4.30	0.090 340	55
	.799 806	2.60	.889 888 .889 785	1.72	.909 918	4.32	.090 082 .089 823	54
7 8	.799 962 .800 117	2.58	.889 682	1.72	.910 177	4.30	.089 565	53
9	.800 272	2.58	.889 579	1.72	.910 435 .910 693	4.30	.089 307	52 51
10	9.800 427	2.58	9.889 477	1.70	9.910 951	4.30	0.089 049	50
11	.800 582	2.58	.889 374	1.72	.911 209	4.30	.088 791	49
12	.800 737	2.58	.889 271	1.72	.911 467	4.30	.088 533	48
13	.800 892	2.58	.889 168	1.72	.911 725	4.30	.088 275	47
14	.801 047	2.58	.889 064	1.73	.911 982	4.28	810 880.	46
15	9.801 201	2.57	9.888 961	1.72	9.912 240	4.30	0.087 760	45
16	.801 356	2.58	.888 858	1.72	.912 498	4.30	.087 502	44
17	.801 511	2.58	.888 755	1.72	.912 756	4.30	.087 244	43
18	.801 665	2.57	.888 651	1.73	.913 014	4.30 4.28	.086 986	42
19	.801 819	2.57 2.57	.888 548	1.73	.913 271	4.30	.086 729	4I
20	9.801 973	2.58	9.888 444	1.72	9.913 529		0.086 471	40
21	.802 128	2.58 2.57	.888 341	1.72	.913 787	4.30 4.28	.086 213	39
22	.802 282	2.57	.888 237	1.72	.914 044	4.30	.085 956	38
23	.802 436	2.55	.888 134	1.73	.914 302	4.30	.085 698	37
24	.802 589	2.57	.888 030	1.73	.914 560	4.28	.085 440	36
25	9.802 743	2.57	9.887 926	1.73	9.914 817	4.30	0.085 183	35
26	.802 897	2.55	.887 822	1.73	.915 075	4.28	.084 925	34
27 28	.803 050 .803 204	2.57	.887 718 .887 614	1.73	.915 332	4.30	.084 668	33 32
29	.803 357	2.55	.887 510	1.73	.915 590 .915 847	4.28	.084 153	31
- 1	9.803 511	2.57	9.887 406	1.73	9.916 104	4.28	0.083 896	30
30 31	.803 664	2.55	.887 302	1.73	.916 362	4.30	.083 638	29
32	.803 817	2.55	.887 198	1.73	.916 619	4.28	.083 381	28
33	.803 970	2.55	.887 093	1.75	.916 877	4.30	.083 123	27
34	.804 123	2.55	.886 989	1.73	.917 134	4.28 4.28	.082 866	26
35	9.804 276	2.55	9.886 885	1.73	9.917 391	I	0.082 609	25
36	.804 428	2.53	.886 780	1.75	.917 648	4.28	.082 352	24
37	.804 581	2.55 2.55	.886 676	1.73	.917 906	4.30 4.28	.082 094	23
38	.804 734	2.53	.886 571	1.75	.918 163	4.28	.081 837	22
39	.804 886	2.55	.886 466	1.73	.918 420	4.28	.081 580	21
40	9.805 039	2.53	9.886 362	1.75	9.918 677	4.28	0.081 323	20
41	.805 191	2.53	.886 257	1.75	.918 934	4.28	.081 066	19
42	.805 343	2.53	.886 152 .886 047	1.75	.919 191	4.28	.080 809 .080 552	18
43 44	.805 495 .805 647	2.53	.885 942	1.75	.919 448 .919 705	4.28	.080 332	17 16
ı	9.805 799	2.53	9.885 837	1.75	9.919 962	4.28	0.080 038	l i
45 46	.805 951	2.53	.885 732	1.75	.920 219	4.28	.079 781	15 14
47	.806 103	2.53	.885 627	1.75	.920 476	4.28	.079 524	13
48	.806 254	2.52	.885 522	1.75	.920 733	4.28	.079 267	12
49	.806 406	2.53	.885 416	1.77	.920 990	4.28	.079 010	11
50	9.806 557	2.52	9.885 311	1.75	9.921 247	4.28	0.078 753	10
51	.806 709	2.53	.885 205	1.77	.921 503	4.27	.078 497	ا و
52	.806 860	2.52 2.52	.885 100	1.75	.921 760	4.28 4.28	.078 240	8
53	.807 011	2.53	.884 994	1.75	.922 017	4.28	.077 983	7
54	.807 163	2.52	.884 889	1.77	.922 274	4.27	.077 726	6
55	9.807 314	2.52	9.884 783	1.77	9.922 530	4.28	0.077 470	5
56	.807 465	2.50	.884 677	1.75	.922 787	4.28	.077 213	4
57	.807 615 807 766	2.52	884 572	1.77	.923 044	4.27	.076 956	3
58	.807 766 .807 917	2.52	.884 466 .884 360	1.77	.923 300	4.28	.076 700 .076 443	2 I
59 60	9.808 067	2.50		1.77	.923 557	4.28		
		- T 1"	9.884 254	- I	9.923 814	- To 1	0.076 186	
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

# 58 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS. 40°

400											
M.	Sin.	D. 1".	Cos.	D 1".	Tan.	D. 1".	Cot.				
0	9.808 067	0.50	9.884 254		9.923 814	4.05	0.076 186	60			
I	.808 218	2.52 2.50	.884 148	1.77	.924 070	4.27 4.28	.075 930	59			
2	.808 368	2.52	.884 042	1.77	.924 327	4.27	.075 673	58			
3	.808 519	2.50	.883 936	1.78	.924 583	4.28	.075 417	57			
4	.808 669	2.50	.883 829	1.77	.924 840	4.27	.075 160	56			
5	9.808 819	2.50	9.883 723	1.77	9.925 096	4.27	0.074 904	55			
6	.808 969 .809 119	2.50	.883 617 .883 510	1.78	.925 352	4.28	.074 648	54			
7 8	.809 269	2.50	.883 404	1.77	.925 609 .925 865	4.27	.074 391	53 52			
9	.809 419	2.50	.883 297	1.78	.926 122	4.28	.073 878	5 T			
10	9.809 569	2.50	9.883 191	1.77	9.926 378	4.27	0.073 622	50			
11	.809 718	2.48	.883 084	1.78	.926 634	4.27	.073 366	49			
12	.809 868	2.50 2.48	.882 977	1.78	.926 890	4.27 4.28	.073 110	48			
13	.810 017	2.40	.882 871	1.77	.927 147	4.27	.072 853	47			
14	.810 167	2.48	.882 764	1.78	.927 403	4.27	.072 597	46			
15	9.810 316	2.48	9.882 657	1.78	9.927 659	4.27	0.072 341	45			
16	.810 465	2.48	.882 550	1.78	.927 915	4.27	.072 085	44			
17	.810 614	2.48	.882 443	1.78	.928 171	4.27	.071 829	43			
18	.810 763 .810 912	2.48	.882 336 .882 229	1.78	.928 427 .928 684	4.28	.071 573	42			
19	· -	2.48	-	1.80		4.27		41			
20 21	9.811 061 .811 210	2.48	9.882 121 .882 014	1.78	9.928 940 .929 196	4.27	0.071 060	40			
22	.811 358	2.47	.881 907	1.78	.929 452	4.27	.070 548	39 38			
23	.811 507	2.48	.881 799	1.80	.929 708	4.27	.070 292	37			
24	.811 655	2.47 2.48	.881 692	1.78 1.80	.929 964	4.27	.070 036	36			
25	9.811 804		9.881 584		9.930 220	4.27	0.069 780	35			
26	.811 952	2.47 2.47	.881 477	1.78 1.80	.930 475	4.25 4.27	.069 525	34			
27	.812 100	2.47	.881 369	1.80	.930 731	4.27	.069 269	33			
28	.812 248	2.47	.881 261	1.80	.930 987	4.27	.069 013	32			
29	.812 396	2.47	.881 153	1.78	.931 243	4.27	.068 757	31			
30	9.812 544 .812 692	2.47	9.881 046 .880 938	1.80	9.931 499	4.27	0.068 501 .068 245	30			
31 32	.812 840	2.47	.880 830	1.80	.931 755 .932 010	4.25	.067 990	29 28			
33	.812 988	2.47	.880 722	1.80	.932 266	4.27	.067 734	27			
34	.813 135	2.45 2.47	.880 613	1.82	.932 522	4.27 4.27	.067 478	26			
35	9.813 283	2.45	9.880 505	1.80	9.932 778	4.25	0.067 222	25			
36	.813 430	2.47	.880 397	1.80	.933 033	4.27	.066 967	24			
37	.813 578	2.45	.880 289	1.82	.933 289	4.27	.066 711	23			
38	.813 725 .813 872	2.45	.880 180 .880 072	1.80	.933 545	4.25	.066 455	22			
39		2.45		1.82	.933 800	4.27	1 .	21			
40	9.814 019 .814 166	2.45	9.879 963	1.80	9.934 056	4.25	0.065 944	20			
41 42	.814 313	2.45	.879 855 .879 746	1.82	.934 311 .934 567	4.27	.065 433	19			
43	.814 460	2.45	.879 637	1.82	.934 822	4.25	.065 178	17			
44	.814 607	2.45	.879 529	1.80	.935 078	4.27	.064 922	16			
45	9.814 753	2.43	9.879 420		9.935 333	4.25	0.064 667	15			
46	.814 900	2.45	.879 311	1.82	.935 589	4.27 4.25	.064 411	14			
47	.815 046	2.43 2.45	.879 202	1.82	.935 844	4.25	.064 156	13			
48	.815 193	2.43	.879 093	1.82	.936 100	4.25	.063 900	12			
49	.815 339	2.43	878 984	1.82	.936 355	4.27	.063 645	11			
50	9.815 485	2.45	9.878 875	1.82	9.936 611	4.25	0.063 389	10			
51 52	.815 632 .815 778	2.43	.878 766 .878 656	1.83	.936 866	4.25	.063 134 .062 879	8			
52 53	.815 924	2.43	.878 547	1.82	.937 121 .937 377	4.27	.062 623	7			
54	.816 069	2.42	.878 438	1.82	.937 632	4.25	.062 368	6			
55	9.816 215	2.43	9.878 328	1.83	9.937 887	4.25	0.062 113	5			
56	.816 361	2.43	.878 219	1.82	.938 142	4.25	.061 858	4			
57	.816 507	2.43 2.42	.878 109	1.83	.938 398	4.27	.061 602	3			
58	.816 652	2.42	.877 999	1.82	.938 653	4.25 4.25	.061 347	2			
59	.816 798	2.42	.877 890	1.83	.938 908	4.25	.061 092	<u> </u>			
60	9.816 943		9.877 780		9.939 163		0.060 837				
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.			
				400							

A	1	0

				410				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.816 943		9.877 780		9.939 163		0.060 837	60
I	.817 088	2.42	.877 670	1.83	.939 418	4.25	.060 582	59
2	.817 233	2.42	.877 560	1.83	.939 673	4.25	.060 327	58
3	.817 379	2.43	.877 450	1.83	.939 928	4.25	.060 072	57
4	.817 524	2.42	.877 340	1.83	.940 183	4.25	.059 817	56
5	9.817 668	2.40	9.877 230	1.83	9.940 439	4.27	0.059 561	
6	.817 813	2.42	.877 120	1.83	.940 694	4.25	.059 306	55
7	.817 958	2.42	.877 010	1.83	.940 949	4.25	.059 051	54
8	.818 103	2.42	.876 899	1.85	.941 204	4.25	.058 796	53
9	.818 247	2.40	.876 789	1.83	.941 459	4.25	.058 541	52 51
		2.42	9.876 678	1.85	- 1	4.23	.030 341	_
10	9.818 392	2.40		1.83	9.941 713	4.25	0.058 287	50
11	.818 536 .818 818.	2.42	.876 568	1.85	.941 968	4.25	.058 032	49
12	.818 825	2.40	.876 457	1.83	.942 223	4.25	.057 777	48
13	.818 969	2.40	.876 347 .876 236	1.85	.942 478	4.25	.057 522	47
14		2.40		1.85	.942 733	4.25	.057 267	46
15	9.819 113	2.40	9.876 125	1.85	9.942 988	4.25	0.057 012	45
16	.819 257	2.40	.876 014	1.83	.943 243	4.25	.056 757	44
17	.819 401	2.40	.875 904	1.85	.943 498	4.23	.056 502	43
18	.819 545	2.40	.875 793	1.85	.943 752	4.25	.056 248	42
19	.819 689	2.38	.875 682	1.85	.944 007	4.25	.055 993	41
20	9.819 832	2.40	9.875 571	1.87	9.944 262	4.25	0.055 738	40
21	.819 976	2.40	.875 459	1.85	.944 517	4.23	.055 483	39
22	.820 120	2.38	.875 348	1.85	·944 77 I		.055 229	38
23	.820 263	2.38	.875 237	1.85	.945 026	4.25 4.25	.054 974	37
24	.820 406	2.40	.875 126	1.87	.945 281	4.23	.054 719	36
25	9.820 550		9.875 014	1.85	9-945 535		0.054 465	35
26	.820 693	2.38	.874 903		.945 790	4.25	.054 210	34
27	.820 836	2.38	.874 791	1.87	.946 045	4.25	.053 955	33
28	.820 979	2.38	.874 680		.946 299	4.23	.053 701	32
29	.821 122	2.38	.874 568	1.87	.946 554	4.25	.053 446	31
30	9.821 265	2.38	9.874 456		9.946 808	4.23	0.053 192	30
31	.821 407	2.37	.874 344	1.87	.947 063	4.25	.052 937	29
32	.821 550	2.38	.874 232	1.87	.947 318	4.25	.052 682	28
33	.821 693	2.38	.874 121	1.85	.947 572	4.23	.052 428	27
34	.821 835	2.37	.874 009	1.87	.947 827	4.25	.052 173	26
	9.821 977	2.37	9.873 896	1.88	9.948 081	4.23	0.051 919	
35	.822 120	2.38	872 784	1.87	.948 335	4.23	.051 665	25
36	.822 262	2.37	.873 784 .873 672	1.87	.948 590	4.25	.051 410	24
37 38	.822 404	2.37		1.87	.948 844	4.23	.051 156	23
39	.822 546	2.37	.873 560 .873 448	1.87	.949 099	4.25	.050 901	22 21
		2.37		1.88		4.23		l.
40	9.822 688	2.37	9.873 335	1.87	9.949 353	4.25	0.050 647	20
41	.822 830	2.37	.873 223	1.88	.949 608	4.23	.050 392	19
42	.822 972	2.37	.873 110	1.87	.949 862	4.23	.050 138	18
43	.823 114	2.35	.872 998 872 881	1.88	.950 116	4.25	.049 884	17
44	.823 255	2.37	.872 885	1.88	.950 371	4.23	.049 629	16
45	9.823 397	2.37	9.872 772	1.88	9.950 625	4.23	0.049 375	15
46	.823 539	2.35	.872 659		.950 879	4.23	.049 121	14
47	.823 680	2.35	.872 547	1.87	.951 133	4.25	.048 867	13
48	.823 821	2.37	.872 434	1.88	.951 388	4.23	.048 612	12
49	.823 963	2.35	.872 321	1.88	.951 642	4.23	.048 358	11
50	9.824 104	2.35	9.872 208	1.88	9.951 896	4.23	0.048 104	10
5 I	.824 245	2.35	.872 095	1.90	.952 150	4.25	.047 850	9
52	.824 386	2.35	.871 981	1.88	.952 405	4.23	.047 595	8
53	.824 527	2.35	.871 868	1.88	.952 659	4.23	.047 341	7
54	.824 668	2.33	.871 755	1.90	.952 913	4.23	.047 087	6
55	9.824 808		9.871 641	1.88	9.953 167		0.046 833	5
56	.824 949	2.35	.871 528		.953 421	4.23	.046 579	4
57	.825 090	2.35	.871 414	1.90	.953 675	4.23	.046 325	3
58	.825 230	2.33	.871 301		.953 929	4.23	.046 071	2
59	.825 371	2.35	.871 187	1.90	.954 183	4.23	.045 817	1
60	9.825 511	2.33	9.871 073	1.90	9.954 437	4.23	0.045 563	0
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	<b>M</b> .
	0081	D. 1.	ή. U	120.100	0061	20, 1		- AL-

#### 60 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS.

**42**º

				_ <b>42</b> °				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.825 511	2.33	9.871 073	1.88	9.954 437	4 22	0.045 563	60
I	.825 651	2.33	.870 960	1.90	.954 691	4.23 4.25	.045 309	59
2	.825 791	2.33	.870 846	1.90	.954 946	4.23	.045 054	58
3	.825 931	2.33	.870 732	1.90	.955 200	4.23	.044 800	57
4	.826 071	2.33	.870 618	1.90	·955 45 <del>4</del>	4.23	.044 546	56
5	9.826 211	2.33	9.870 504	1.90	9.955 708	4.22	0.044 292	55
6	.826 351	2.33	.870 390	1.90	.955 961	4.23	.044 039	54
7	.826 491	2.33	.870 276	1.92	.956 215	4.23	.043 785	53
8	.826 631	2.32	.870 161	1.90	.956 469	4.23	.043 531	52
9	.826 770	2.33	.870 047	1.90	.956 723	4.23	.043 277	51
10	9.826 910	2.32	9.869 933	1.92	9.956 977	4.23	0.043 023	50
11	.827 049	2.33	.869 818	1.90	.957 231	4.23	.042 769	49
12	.827 189	2.32	.869 704	1.92	.957 485	4.23	.042 515	48
13	.827 328	2.32	.869 589	1.92	·957 739	4.23	.042 261	47
14	.827 467	2.32	.869 474	1.90	·957 <del>9</del> 93	4.23	.042 007	46
15	9.827 606	2.32	9.869 360	1.92	9.958 247	4.22	0.041 753	45
16	.827 745	2.32	.869 245	1.92	.958 500	4.23	.041 500	44
17	.827 884	2.32	.869 130	1.92	.958 754	4.23	.041 246	43
18	.828 023	2.32	.869 015	1.92	959 008	4.23	.040 992	42
19	.828 162	2.32	.868 900	1.92	.959 262	4.23	.040 738	41
20	9.828 301	_	9.868 785	1 .	9.959 516		0.040 484	40
21	.828 439	2.30	.868 670	1.92	.959 769	4.22	.040 231	39
22	.828 578	2.32	.868 555	1.92	.960 023	4.23	.039 977	38
23	.828 716	2.30	.868 440	1.92	.960 277	4.23	.039 723	37
24	.828 855	2.32 2.30	.868 324	1.93	.960 530	4.22 4.23	.039 470	36
25	9.828 993	I -	9.868 209	1.92	9.960 784		0.039 216	35
26	.829 131	2.30	.868 093	1.93	.961 038	4.23	.038 962	34
27	.829 269	2.30	.867 978	1.92	.961 292	4.23	.038 708	33
28	.829 407	2.30	.867 862	1.93	.961 545	4.22	.038 455	32
29	.829 545	2.30	.867 747	1.92	.961 799	4.23	.038 201	31
30	9.829 683	2.30	9.867 631	1.93	9.962 052	4.22	0.037 948	30
31	.829 821	2.30	.867 515	1.93	.962 306	4.23	.037 694	29
32	.829 959	2.30	.867 399	1.93	.962 560	4.23	.037 440	28
33	.830 097	2.30 2.28	.867 283	1.93	.962 813	4.22	.037 187	27
34	.830 234		.867 167	1.93	.963 067	4.23	.036 933	26
35	9.830 372	2.30	9.867 051	1.93	9.963 320	4.22	0.036 680	25
36	.830 509	2.28	.866 935	1.93	.963 574	4.23	.036 426	24
37	.830 646	2.28	.866 819	1.93	.963 574 .963 828	4.23	.036 172	23
38	.830 784	2.30 2.28	.866 703	1.93	.964 081	4.22	.035 919	22
39	.830 921	2.28	.866 586	1.95	.964 335	4.23	.035 665	21
40	9.831 058		9.866 470	1.93	9.964 588	4.22	0.035 412	20
41	.831 195	2.28	.866 353	1.95	.964 842	4.23	.035 158	19
42	.831 332	2.28	.866 237	1.93	.965 095	4.22	.034 905	18
43	.831 469	2.28 2.28	.866 120	1.95	.965 349	4.23	.034 651	17
44	.831.606	2.26	.866 004	1.93	.965 602	4.22	.034 398	16
45	9.831 742		9.865 887	1.95	9.965 855	4.22	0.034 145	15
46	.831 879	2.28	.865 770	1.95	.966 109	4.23	.033 891	14
47	.832 015	2.27 2.28	.865 653	1.95	.966 362	4.22	.033 638	13
48	.832 152	2.28	.865 536	1.95	.966 616	4.23	.033 384	12
49	.832 288	2.27	.865 419	1.95	.966 869	4.22	.033 131	11
50	9.832 425		9.865 302	1.95	9.967 123	4.23	0.032 877	10
51	.832 561	2.27	.865 185	1.95	.967 376	4.22	.032 624	9
52	.832 697	2.27	.865 068	1.95	.967 629	4.22	.032 371	8
53	.832 833	2.27	.864 950	1.97	.967 883	4.23	.032 117	7
54	.832 969	2.27	.864 833	1.95	.968 136	4.22	.031 864	7
55	9.833 105	2.27	9.864 716	1.95	9.968 389	4.22	0.031 611	
56	.833 241	2.27	.864 598	1.97	.968 643	4.23	.031 357	4
57	.833 377	2.27	.864 481	1.95	.968 896	4.22	.031 104	5 4 3
58	.833 512	2.25	.864 363	1.97	.969 149	4.22	.030 851	2
59	.833 648	2.27	.864 245	1.97	.969 403	4.23	.030 597	1
60	9.833 783	2.25	9.864 127	1.97	9.969 656	4.22	0.030 344	0
		D 1"		1 <del></del>		<del></del>		
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.

				45				
M.	Sin.	D. 1".	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.833 783		9.864 127		9.969 656		0.030 344	60
1	.833 919	2.27	.864 010	1.95	.969 909	4.22	.030 091	59
2	.834 054	2.25	.863 892	1.97	.970 162	4.22	.029 838	58
3	.834 189	2.25	.863 774	1.97	.970 416	4.23	.029 584	57
4	.834 325	2.27	.863 656	1.97	.970 669	4.22	.029 331	56
5	9.834 460	2.25	9.863 538	1.97	9.970 922	4.22	0.029 078	55
6	.834 595	2.25	.863 419	1.98	.971 175	4.22	.028 825	54
7	.834 730	2.25	.863 301	1.97	.971 429	4.23	.028 571	53
8	.834 865	2.25	.863 183	1.97	.971 682	4.22	.028 318	52
9	.834 999	2.23	.863 064	1.98	.971 935	4.22	.028 065	51
10	9.835 134	2.25	9.862 946	1.97	9.972 188	4.22	0.027 812	50
11	.835 269	2.25	.862 827	1.98	.972 441	4.22	.027 559	49
12	.835 403	2.23	.862 709	1.97	.972 695	4.23	.027 305	48
13	.835 538	2.25	.862 59ó	1.98	.972 948	4.22	.027 052	47
14	.835 672	2.23	.862 471	1.98	.973 201	4.22	.026 799	46
15	9.835 807	2.25	9.862 353	1.97	9.973 454	4.22	0.026 546	45
16	.835 941	2.23	.862 234	1.98	.973 707	4.22	.026 293	44
17	.836 075	2.23	.862 115	1.98	.973 960	4.22	.026 040	43
18	.836 209	2.23	.861 996	1.98	.974 213	4.22	.025 787	42
19	.836 343	2.23	.861 877	1.98	.974 466	4.22	.025 534	41
20	9.836 477	2.23	9.861 758	1.98	9.974 720	4.23	0.025 280	40
21	.836 611	2.23	.861 638	2.00	·974 973	4.22	.025 027	39
22	.836 745	2.23	.861 519	1.98	.975 226	4.22	.024 774	38
23	.836 878	2.22	.861 400	1.98	.975 479	4.22	.024 521	37
24	.837 012	2.23	.861 280	2.00	.975 732	4.22	.024 268	36
25	9.837 146	2.23	9.861 161	1.98	9.975 985	4.22	0.024 015	35
26	.837 279	2.22	.861 041	2.00	· .976 238	4.22	.023 762	34
27	.837 412	2.22	.860 922	1.98	.976 491	4.22	.023 509	33
28	.837 546	2.23	.860 802	2.00	.976 744	4.22	.023 256	32
29	.837 679	2.22	.860 682	2.00	.976 997	4.22	.023 003	31
30	9.837 812	2.22	9.860 562	2.00	9.977 250	4.22	0.022 750	30
31	.837 945	2.22.	.860 442	2.00	.977 503	4.22	.022 497	29
32	.838 078	2.22	.860 322	2.00		4.22	.022 244	28
33	.838 211	2.22	.860 202	2.00	.977 756 .978 009	4.22	.021 991	27
34	.838 344	2.22	.860 082	2.00	.978 262	4.22	.021 738	26
35	9.838 477	2.22	9.859 962	2.00	9.978 515	4.22	0.021 485	25
35	.838 610	2.22	.859 842	2.00	.978 768	4.22	.021 232	24
37	.838 742	2.20	.859 721	2.02	.979 021	4.22	.020 979	23
38	.838 875	2.22	.859 601	2.00	.979 274	4.22	.020 726	22
39	.839 007	2.20	.859 480	2.02	.979 527	4.22	.020 473	21
40	9.839 140	2.22	9.859 360	2,00	9.979 780	4.22	0.020 220	20
42	.839 272	2.20	.859 239	2.02	.980 033	4.22	.019 967	19
42	.839 404	2.20	.859 119	2.00	.980 286	4.22	.019 714	18
43	.839 536	2.20	.858 998	2.02	.980 538	4.20	.019 462	17
44	.839 668	2.20	.858 877	2.02	.980 791	4.22	.019 209	16
45	9.839 800	2.20	9.858 756	2.02	9.981 044	4.22	0.018 956	15
46	.839 932	2.20	.858 635	2.02	.981 297	4.22	.018 703	14
47	.840 064	2.20	.858 514	2.02	.981 550	4.22	.018 450	13
48	.840 196	2.20	.858 393	2.02	.981 803	4.22	.018 197	12
49	.840 328	2.20 2.18	.858 272	2.02	.982 056	4.22	.017 944	11
50	9.840 459		9.858 151	2.02	9.982 309	4.22	0.017 691	10
51	.840 591	2.20	.858 029	2.03	.982 562	4.22	.017 438	ا و ا
52	.840 722	2.18	.857 908	2.02	.982 814	4.20	.017 186	8
53	.840 854	2.20 2.18	.857 786	2.03	.983 067	4.22	.016 933	7
54	840 985	2.18	.857 665	2.02	.983 320	4.22	.016 680	6
55	9.841 116		9.857 543	2.03	9.983 573	4.22	0.016 427	5
56	.841 247	2.18	.857 422	2.02	.983 826	4.22	.016 174	4
57	.841 378	2.18	.857 300	2.03	.984 079	4.22	.015 921	3
58	.841 509	2.18 2.18	.857 178	2.03	.984 332	4.22	.015 668	2
59	.841 640	2.18	.857 056	2.03	.984 584	4.20	.015 416	1
60	9.841 771	2.10	9.856 934	2.03	9.984 837	4.22	0.015 163	0
<u> </u>		D 3"		D 3"		D 1"		
	Cos.	D. 1".	Sin.	D. 1".	Cot.	D. 1".	Tan.	M.
				4.00				

#### 62 LOGARITHMIC SINES, COSINES, TANGENTS, AND COTANGENTS.

		1		44				
<u>M.</u>	Sin.	D. 1"	Cos.	D. 1".	Tan.	D. 1".	Cot.	
0	9.841 771	2.18	9.856 934	2.03	9.984 837	4.00	0.015 163	60
1	.841 902	2.18	.856 812	2.03	.985 090	4.22 4.22	.014 910	59
2	.842 033	2.17	.856 690	2.03	985 343	4.22	.014 657	58
3	.842 163	2.18	.856 568	2.03	.985 596	4.20	.014 404	57
4	.842 294	2.17	.856 446	2.05	.985 848	4.22	.014 152	56
5	9.842 424	2.18	9.856 323		9.986 101	1	0.013 899	55
6	.842 555	2.17	.856 201	2.03	.986 354	4.22	.013 646	54
7	.842 685		.856 078	2.05	.986 607	4.22	.013 393	53
8	.842 815	2.17 2.18	.855 956	2.03	.986 860	4.22	.013 140	52
9	.842 946	2.17	.855 833	2.05	.987 112	4.20	.012 888	51
10	9.843 076	•	9.855 711	1 -	9.987 365	4.22	0.012 635	50
11	.843 206	2.17	.855 588	2.05	.987 618	4.22	.012 382	49
12	.843 336	2.17	.855 465	2.05	.987 871	4.22	.012 129	48
13	.843 466	2.17	.855 342	2.05	.988 123	4.20	.011 877	47
14	.843 595	2.15	.855 219	2.05	.988 376	4.22	.011 624	46
15	9.843 725	2.17	9.855 096	2.05	9.988 629	4.22	0.011 371	45
16	.843 855	2.17	.854 973	2.05	.988 882	4.22	.011 118	44
17	.843 984	2.15	.854 850	2.05	.989 134	4.20	.010 866	43
18	.844 114	2.17	.854 727	2.05	.989 387	4.22	.010 613	42
19	.844 243	2.15	.854 603	2.07	.989 640	4.22	.010 360	41
20	9.844 372	2.15	9.854 480	2.05	9.989 893	4.22	0.010 107	
21	.844 502	2.17	.854 356	2.07	.990 145	4.20	.009 855	40
22	.844 631	2.15	.854 233	2.05	.990 398	4.22	.009 602	39 38
23	.844 760	2.15	.854 109	2.07	.990 651	4.22	.009 349	- 1
24	.844 889	2.15	.853 986	2.05	.990 903	4.20	.009 097	37 36
25	9.845 018	2.15	9.853 862	2.07		4.22	0.008 844	
26	.845 147	2.15	853 738	2.07	9.991 156	4.22	.008 591	35
27	.845 276	2.15	.853 614	2.07	.991 409 .991 662	4.22	.008 338	34
28	.845 405	2.15	.853 490	2.07	.991 914	4.20	.008 086	33 32
29	.845 533	2.13	.853 366	2.07	.992 167	4.22	.007 833	31
_	9.845 662	2.15	9.853 242	2.07		4.22		
30	.845 790	2.13	.853 118	2.07	9.992 420	4.20	0.007 580	30
31 32	.845 919	2.15	.852 994	2.07	.992 672 .992 925	4.22	.007 328	29 28
33	.846 047	2.13	.852 869	2.08	.993 178	4.22	.007 075	27
34	.846 175	2.13	.852 745	2.07	.993 431	4.22	.006 569	26
	9.846 304	2.15	9.852 620	2.08		4.20		
35 36	.846 432	2.13	.852 496	2.07	9.993 683	4.22	0.006 317	25
37	.846 560	2.13	.852 371	2.08	.993 936 .994 189	4.22	.005 811	24
38	.846 688	2.13	.852 247	2.07	.994 441	4.20	.005 559	23 22
39	.846 816	2.13	.852 122	2.08	.994 694	4.22	.005 306	21
	9.846 944	2.13		2.08		4.22		
40 41	.847 071	2.12	9.851 997 .851 872	2.08	9.994 947	4.20	0.005 053	20
42	.847 199	2.13	.851 747	2.08	.995 199	4.22	.004 801	19
43	.847 327	2.13	.851 622	2.08	.995 452	4.22	.004 548 .004 295	
44	.847 454	2.12	.851 497	2.08	.995 705 .995 957	4.20	.004 043	17
	9.847 582	2.13	9.851 372	2.08		4.22		
45 46	.847 709	2.12	9.851 372 .851 246	2.10	9.996 210	4.22	0.003 790	15
47	.847 836	2. I 2	.851 121	2.08	.996 463 .996 715	4.20	.003 537	14
48	.847 964	2.13	.850 996	2.08	.996 968	4.22	.003 285	13
49	.848 091	2.12	.850 870	2.10	.997 221	4.22	.003 032	12 11
	9.848 218	2.12	, 9.850 745	2.08	-	4.20		
50 51	.848 345	2.12	.850 619	2.10	9.997 473	4.22	0.002 527	10
52	.848 472	2.12	.850 493	2.10	.997 726	4.22	.002 274	9
53	.848 599	2.12	.850 368	2.08	.997 979 .998 231	4.20	.002 021 .001 769	8
54	.848 726	2.12	.850 242	2.10	.998 484	4.22	.001 709	7
	9.848 852	2.10		2.10		4.22		
55	.848 979	2.12	9.850 116	2.10	9.998 737	4.20	0.001 263	5
56	.849 106	2.12	.849 990 .849 864	2.10	.998 989	4.22	.001 011	4
57 58	.849 232	2.10	.849 738	2.10	·999 242	4.22	.000 758	3
59	.849 359	2.12	.849 611	2.12	·999 495	4.20	.000 505	2
60	9.849 485	2.10		2.10	.999 747	4.22	.000 253	I
			9.849 485		0.000 000		0.000 000	0
	Cos.	D. 1".	Sin.	, D. 1".	Cot.	D. 1".	Tan.	M.
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#### A TABLE

OF THE

# NATURAL SINES, COSINES, TANGENTS, AND COTANGENTS,

FOR EVERY

DEGREE AND MINUTE FROM 0° TO 90°.

### 64 NATURAL SINES, COSINES, TANGENTS, AND COTANGENTS.

		<b>0</b> °			<u>1º</u>				<b>2</b> °				
M.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Cot.	Sin.	Oos.	Tan.	Cot.	
0	.00000	1.0000	.00000	<b>∞</b>	.01745	.99985	.01746	57.290	.03490	.99939	.03492	28.636	60
1	029	000		3437.7	774	984	775	56.351	519	938	521	-399	59
2	058	000		1718.9	803	984		55.442	548	937	550	.166	58
3	087	000	087	1145.9	832	983		54.561	577	936		27.937	57
4	116	000		859.44	862	983		53.709	606	935	609	.712	56
5			.00145		.01891						.03638		55
6	175	000		572.96	920	982	920	.081	664	933	667	.271	54
7 8	204	000		491.11	949 978	981 980		51.303 50.549	693 723	932 931	696	.057 26.845	53 52
ا و	233 262	000		381.97	.02007		.02007		752	930	754	.637	51
10			.00291	1			.02036			.99929			50
11		.99999		312.52	065	979		48.412	810	927	812	.230	49
12	349	999		286.48	094	978		47.740	839	926	842	.031	48
13	378	999		264.44	123	977	124	.085	868	925		25.835	47
14	407	999	407	245.55	152	977	153	46.449	897	924	900	.642	46
15	.00436	.99999	.00436	229.18	.02181	.99976	.02182	45.829	.03926	.99923	.03929	25.452	45
16	465	999	465	214.86	211	976	211	.226	955	922	958	.264	44
17	495	999		202.22	240	975		44.639	984	921	987	.080	43
18	524	999		190.98	269	974	269	.066	.04013		.04016		42
19	553	998		180.93	298	974	298	43.508	042	918	046	.719	4 <sup>I</sup>
20		.99998	.00582								.04075		40
21	611	998		163.70	356	972	357	-433	100	916	104	.368	39
22	640 660	998 998		156.26 149.47	385	972		41.916	129	915 913	133 162	.196 .026	38
23 24	698	998		143.24	414 443	971 9 <b>7</b> 0	415	40.917	159   188	913		23.859	37 36
	_		.00727				.02473			-	.04220		
25 26	756	1888. 997		132.22	501	969		39.965	246	910	250	.532	35 34
27	785	997		127.32	530	968	531	.506	275	909	279	.372	33
28	814	997		122.77	560	967	560	.057	304	907	308	.214	32
29	844	996		118.54	589	966		38.618	333	906	337	.058	31
30	.00873	.99996	.00873	114.59	.02618	.99966	.02619	38.188	.04362	.99905	.04366	22.904	30
31	902	996	•	110.89	647	965	648	37.769	391	904	395	.752	29
32	931	996		107.43	676	964	677	.358	420		424	.602	28
33	960	995		104.17	705	963		36.956	449	901	454	454	27
34	989	995		101.11	734	963	735	.563	478	900	483	.308	25
35			81010.	98.218		.99962 961	.02764	30.178		.99898		22.164 .022	25
36 37	047 076	995 994		95.489 92.908	792 821	960	793 822	35.801	536 565	897 <b>896</b>	54I	21.881	24
38	105	994		90.463	850	959	851	.070	594	894	599	·743	22
39	134	994		88.144	879	959	881	34.715	623	893	628	.606	21
40			.01164				.02910	34.368		.99892	.04658	21.470	20
41	193	993		83.844	938	957	939	.027	682	890	687	.337	19
42	222	993		81.847	967	956	968	33.694	711	889	716		18
43	251	992		79.943	996	955	997	.366	740		, ,,	.075	17
44	280	992		78.126	.03025	954	-	.045	769			20.946	16
45	.01309		.01 309		.03054			32.730	.04798	.99885	.04803	20.819	15
46	338	991		74.729	083	952	084	.421	827	883		.693	14
47 48	367 396	991 990		73.139 71.615	112 141	952	114	.118 31.821	856 885	882 881	862 891	<b>.</b>	13
49	425	990		70.153	170	951 950	143	.528	914	879	920	-446 -325	11
50					•		.03201	•				20.206	10
1 1	.0.	.989 989	.0.	6- 400	0	0				0_4	~-0	~0~	"
52	403 513	989	513	66.105	257	940 947	259	.683	.05001	875		19.970	8
53	542	988	542	64.858	<sup>257</sup> 286	946		.412	030	873	037		7
54	571	988	571	63.657	316	945	317	.i45	059	872	o66	.740	6
55		.99987	.01600	62.499	.03345		.03346			.99870	.05095	19.627	5
56	629	987	629	61.383	374	943	376		117	869	124	.516	4
57	658	986		60.306	403	942		-371	146	867	153		3
58	687	986		59.266	432	941			175	866			2
59	716			58.261	461	940		28.877	205	864	212		I
60	.01745	.99985	.01746	57.290	.03490	.99939	.03492	28.636	.05234	.99863	.05241	19.081	<u>  °</u>
l	Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Oot.	Tan.	Cos.	Bin.	Cot.	Tan.	M.
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> Cot. °

Tan.

Cos.

Cos.

Sin.

Cot.

Tan.

Cos.

Sin.

Sin.

Cot.

Tan.

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M.	Sin.	Cos.	Tan.	Oot.	Sin.	Cos.	Tan.	Oot.	Sin.	Cos.	Tan.	Oot.	Ŀ
0	.15643	.98769	.15838	6.3138	.17365	.98481	.17633	5.6713	.19081	.98163	.19438	5.1446	60
1	672	764	868	.3019	393	476	663	.6617	109	157	468	.1366	59
2	701	760	898	.2901	422	471	693		138	152		.1286	58
3	730	755	928	.2783	451	466	723	.6425	167			.1207	57
4	758	751	958	.2666	479	461	753	.6329	195	140	559 .19589	.1128	56
5 6	.15787 816		.15988	6.2549			.17783 813	5.6234		.98135	.19589		55
7	845	737	047	.2432 .2316	537 565	450 445	843	.6045	252 281	124		.0970 .0892	54
8	873	732	077	.2200	594	440	873	.5951	309	118		.0814	52
9	902	728	107	.2085	623	435	903	.5857	338	112		.0736	51
10	.15931	.98723	.16137	6.1970	.17651			5.5764		.98107	.19740		50
11	959	718	167	.1856	<b>68</b> 0	425	963	.5671	395	101	770	.0581	49
12	_988	714	196	.1742	708	420	993	.5578	423	096	801	.0504	48
13	.16017	709	226	.1628	737		.18023	.5485	452	090		.0427	47
14	046	704	256	.1515	766	409	053	.5393	481	084		.0350	45
15				6.1402					.19509	.98079	.19891		45
16	103 132	695 690	316 346	.1290 .1178	823 852	399	113		538 566			.0197 .0121	44
17	160	686	376	.1066	880	394 389	143 173	.5118 .5026	595	061	932 982		43 42
19	189	681	405	.0955	909	383	203		623	_	.20012	, ,	41
20	•			6.0844			_	5.4845			.20042		40
21	246	671	465	.0734	966	373	263	.4755	680	044			39
22	275	667	495	.0624	995	368	293	.4665	709	039		.9744	38
23	304	662	525	.0514	.18023	362			737	озз			37
24	333	657	555	.0405	052	357	353		766	•		9594	36
25			, ,	6.0296		.98352					.20194		35
26	390	648	615	.0188	109	347	414		823				34
27 28	419 447	643 638	645	.0080	138 166	34I	444 474		851 880	010 004	ν.	.9372 .9298	33
29	447 476	633	704		195	336 331	4/4 504			.97998		.9225	32 31
30				5.9758		.98325			1		.20345		30
31	533	624	764	.9651	252		564		965	987	376	.9078	29
32	562	619	794	.9545	281	315	594	.3781	994	٠.,	406	.9006	28
33	591	614	824	.9439	309	310	624	.3694	.20022		436	.8933	27
34	620	609	854	.9333	338	304		.3607	051	969			26
35				5.9228				5.3521			.20497	4.8788	25
36	677	600	914	.9124	395	294 288	714		108	958		.8716	24
37 38	706 734	595 590	944 974	.9019 .8915	424 452	200 283	745 775	·3349 .3263	136	952 946		.8644 .8573	23
39	763		.17004	.8811	481	203 277	773 805	.3178	193				21
40				5.8708			-	5.3093			.20648	-	20
41	820	575	063	.8605	538	267	865	.3008	250				19
42	849	570	093	.8502	567	261	895	.2924	279	922		.8288	18
43	878	565	123	.8400	595	256	925	.2839	307	916		.8218	17
44	906	561	153	.8298	624	250	955	.2755	336				16
45			.17183					5.2672		.97905	.20800	4.8077	15
46	964	551	213	.8095	681	•	.19016	-	393	899		.8007	14
47	.17021	546 541	243 273	·7994 ·7894	710 738	234 229	046	.2505 .2422	42I 450	893 887	861 891	·7937 ·7867	13
49	050	536	2/3 303	·7794	767	223	106	.2339	478	881	921	.7798	11
50				5.7694	.18795	_					.20952		10
51	107	526		·7594		212	166	.2174	235	869		.7659	10
52	136	521		.7495	852			.2092	563	863	.21013	.7591	8
53	164	516	423	.7396	881	201	227	.2011	592	857	043	.7522	7
54	193	511		.7297	910	196	257		620	851		·7453	6
55			.17483					5.1848			.21104		5
56	250	501		.7101	967	185	٠.	.1767	677	839		.7317	4
57	279	496	543	.7004	995	179	347	.1686	706	833		.7249	3
58 59	308 336	491 486	573 603	.6906 .6809	.19024 052	174 168		.1606 .1526	734 763	827 821		.7181 .7114	2 I
59 60		-	.17633	-	_		•	5.1446		_	.21256	•	
													<u> </u>
	Cos.	Sin.	Oot.	Tan.	Coa.	Sin.	Cot.	Tan.	Cos.	Sin.	Cot.	Tan.	M.

		12				10				14	<u> </u>		
M.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Cot.	
0	.20791	.97815	.21256	4.7046	.22495	.97437	.23087	4-3315	.24192	.97030	.24933	4.0108	60
1	820	809	286		523	430	117	.3257	220			.0058	59
2	848	803	_		552	424	148	.3200	249	015	995	.0009	58
3	877	797	347		580	417	179	.3143	277			3.9959	57
4	905	791	377	.6779	608	411	209	.3086	305	100	056		56
5				4.6712	.22637				·24333	.96994			55
6	962	778	438	.6646	665	398	271	.2972	362	987	118	.9812	54
7	990	772	469	.6580	693	391	301	.2916	390	980	1-	.9763	53
8	.21019	766 760	499 529		722	384	332	.2859 .2803	418 446	973 966	180 211	.9714 .9665	52
9	047	•	• -		750	378	363	_		-			51
10				4.6382	.22778 807					.96959			50
11	104 132	748 742	590 621	.6317 .6252	835	365 358	424 455	.2691 .2635	503 531	952	273 304	.9568 .9520	49
13	161	735	651	.6187	863	351	433 485	.2580	559	945 937	335	.9320	48 47
14	189	729	682		892	345	516	.2524	587	930	366		46
15				46057	-			4.2468		.96923			45
16	246	717	743	.5993	948	331	578	.2413	644	916	428	.9327	44
17	275	711	773	.5928	977	325	608	.2358	672	909	459	.9279	43
18	303	705	804	.5864	.23005	318	639	.2303	700	902	490	.9232	42
19	33i	698	834	.5800	033	311	670	.2248	728	894	521	.9184	41
20	.21360	.97692	.21864	4.5736	.23062	.97304	.23700	4.2193	.24756	.96887	.25552	3.9136	40
21	388	686	895	.5673	090	298	731	.2139	.24756 784	880	583	.9089	39
22	417	680	925	.5609	118	291	762	.2084	813	873	614	.9042	38
23	445	673	956		146	284	793	.2030	841	866	645	.8995	37
24	474	667	986		175	278	823	.1976	869	858	676		36
25	.21502			4.5420	.23203						.25707	3.8900	35
26	530	655	047	·5357	231	264	885	.1868	925	844	7,38	.8854	34
27	559	648	078	.5294	260	257	916	.1814	954	837	769	.8807	33
28	587 616	642	108	.5232	288	251	946	.1760	982	829 822	800	.8760	32
29	l .	636	139	.5169	316	244	977	.1706	.25010		831	.8714	31
30	672	.97030 623		4.5107	.23345			4.1053	.25038 066	.96815 807	.25802 893	3.8007 .8621	30
31	701	617	200 23I	.5045 .4983	373 401	230 223	039 069	.1600	094	800	924		29 28
33	729	611	261	.4922	429	217	100	.1493	122	793	955	.8528	27
34	758	604	292	.4860	458	210	131	.1441	151	786	986		26
35		•		4-4799	23486				.25179				25
36	814	592	353	4737	514	196	193	.1335	207	771	048	.8391	24
37	843	585	383	.4676	542	189	223	.1282	235	764	079	.8345	23
38	871	579	414	.4615	571	182	254	.1230	263	756	110	.8299	22
39	899	573	444	4555	599	176	285	.1178	291	749	141	.8254	21
40	.21928	.97566	.22475	4.4494	.23627	.97169	.24316	4.1126	.25320	.96742	.26172	3.8208	20
41	956	560	505	•4434	656	162	347	.1074	348	734	203	.8163	19
42	985	553	536	·4373	684	155 148	377	.1022	376	727	235	.8118	18
43	.22013	547	567	.4313	712		408	.0970	404	719	266	.8073	17
44	041	541	597	.4253	740	141	439	.0918	432	712	297	.8028	16
45	.22070				.23769				.25460				15
46	098	528	658 680	.4134	797	127	501	.0815	488	697	359	.7938	14
47	126	521	689	.4075	825	120	532	.0764	516	690 682	390 421	.7893 .7848	13
48 49	155 183	515 508	719 750	.4015 .3956	853 882	113	562 593	.0662	545 573	675	452	.7804	12
	.22212								573 .25601				, ,
50 51	240	.97502 496	21 / OI	.3838	028	.97100	.24024 6e e	4.0611 .0560	629	.90007	515	.7715	10
52	268	489	842	.3779	966	086	686	.0509	657	653	546	7671	8
53	297	483	872		995	079	717	.0459	685	645		.7627	7
54	325	476	903	.3662	.24023	072	747	.0408	713	645 638	577 608	.7583	6
55	.22353				.24051				.25741				5
56	382	463	964		079	058	809	.0308		623	670	·7495	4
57	410	457	995	.3488	108	051	840	.0257	798	615	701		3
58	438	450	.23026	.3430	136	044	871	.0207	826	608	733	.7408	2
59	467	444	056		164	037	902	.0158	854	600		.7364	I
60	.22495	.97437	.23087	4.3315	.24192	.97030	.24933	4.0108	.25882	.96593	.26795	3.7321	0
	Cos.	Sin.	Oot.	Tan.	Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Oot.	Tan.	¥.
		57111				5in.				D.M.			لنت

M.	Sin.	Cos.	Tan.	Oot.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Cot.	
0	.25882	.06593	.26795	3.7321	.27564	.96126	.28675	3.4874	.20237	.95630	.30573	3,2700	60
1	910	585	826	.7277	592	118	706	.4836	265	622	605	.2675	59
2	938	578	857	.7234	620	110	738	.4798	293	613	637	.2641	58
3	966	570	888	.7191	648	102	769	.4760	321	605	669	.2607	57
4	994	562	920	.7148	676	094	801	4722	348	<b>59</b> 6	700	.2573	56
5	.26022	.96555	.26951	3.7105	.27704	.96086	.28832	3.4684	.29376	.95588	.30732	3.2530	55
6	050	547	982	.7062	731	078	864	.4646	404	579	764	.2506	54
7	079	540	.27013	.7019	759	070	895	.4608	432	571	796	.2472	53
8	107	532	044	.6976	787	062	927	4570	460	562	828	.2438	52
9	135	524	076	.6933	815	054	958	-4533	487	554	860	.2405	51
10	.26163	.96517	.27107	3.6891	.27843	.96046	.28990	3-4495	.29515	.95545	.30891	3.2371	50
11	191	509	138	.6848	871	037	.29021	.4458	543	536	923	.2338	49
12	219	502	169	.6806	899	029	053	.4420	571	528	955	.2305	48
13	247	494	201	.6764	927	021	084	.4383	599	519	987	.2272	47
14	275	486	232	.6722	955	013	116	.4346	626	-	.31019	.2238	46
15			.27263	3.6680	.27983	.96005				.95502			45
16	331	471	294	.6638	.28011		179	.4271	682	493	083	.2172	44
17	359	463	326	.6596	039	989	210	.4234	710	485	. 115	.2139	43
18	387	456	357 388	.6554	067	981	242	.4197	737	476	147	.2106	42
19	415	448		.6512	095	972	274	.4160	765	467	178	.2073	41
20	.26443			3.6470		.95964			. <b>297</b> 93 821	.95459			40
21	471	433	451 482	.6429	150	956	337 368	.4087 .4050	849	450	242	.2008	39
22	500 528	425 417	513	.6387 .6346	178 206	948 940	400	.4014	876	441 433	274 306	.1975 .1943	38
23	556	410	545	.6305	234	931	432	.3977	904	433 424	338	.1943	37 36
1 1		•				.95923				.95415			
25 26	612	394	.27576 607	.6222	290	95923		3.3941	960	407	402		35
27	640	39 <del>4</del> 386	638	.6181	318	• 907	495 526	.3868	987	398	434	.1813	34 33
28	668	379	670	.6140	346	898	558	.3832	.30015	389	466	.1780	32
29	696	371	701	.6100	374	890	590	.3796	043	380	498	.1748	31
30			.27732			.95882			_	.95372			30
31	752	355	764	.6018	429	874	653	.3723	098	363	562	.1684	29
32	780	347	795	.5978	457	865	685	.3687	126	354	594	.1652	28
33	808	340	826	-5937	485	857	71 <b>6</b>	.3652	154	345	626	.1620	27
34	836	332	858	.5897	513	849	748	.3616	182	337	658	.1588	26
35	.26864	.96324	.27889	3.5856	.28541	.95841	.29780	3.3580	.30209	.95328	.31690	3.1556	25
36	892	316	921	.5816	569	832	811	-3544	237	319	722	.1524	24
37	920	308	952	.5776	597	824	843	.3509	265	310	754	.1492	23-
38	948	301	983	.5736	625	816	875	·3473	292	301	786	.1460	22
39	976		.28015	.5696	652	807	906	.3438	320	293	818	.1429	21
40			.28046	3.5656	.28680			3.3402		.95284	.31850		20
41	032	277	977	.5616	708	791	970	.3367	376	275	882	.1366	19
42	060	269	109	•.5576	736	•	.30001	.3332	403	266	914	.1334	18
43	088 116	261 252	140	.5536	764	774 766	033 065	.3297 .3261	431	257 248	946	.1303	17
44		253	172	.5497	792				459		978	.1271	
45			.28203		.20520		.30097	3.3226		.95240	.32010	3.1240	15
46	172 200	238 230	234 266	.5418	847 875	749	128 160	.3191 .3156	514	231 222	042 074	.1209	14
47 48	228	230	297	·5379 ·5339	903	740 732	192	.3122	542 570	213	106	.1146	13
49	256	214	329	.5300	931	732 724	224	.3087	597	204	139	.1115	11
50		•	.28360			.95715	•			.95195			10
51	312	198	391	.5222	987	797 797	287	.3017	653	186	203	.1053	9
52	340	190	423	.5183	.29015	698	319		686	177	235	.1022	8
53	368	182		.5144	042		351		708	168	267	.0991	7
54	396	174		.5105	070	6 <b>8</b> 1	382		736	159	299	.0961	6
55				3.5067		.95673				.95150		3.0030	5
56	452	158			126	664	446		791	142	363		4
57	480	150			154	656	478		819	133	396	.0868	3
58	508	142			182		509		846	124	428	.0838	2
59	536	134	643		209	639	541	.2743	874	115	460	.0807	1
60	.27564	.96126	.28675	3.4874	.29237	.95630	.30573	3.2709	.30902	.95106	.32492	3.0777	0
	Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Cot,	Tan.	Cos.	Sin.	Oot.	Tan.	M.
	I COB.	DITT:	Our	T TT.	L COR.	OIT.	OUL	7 971	, cos.	OIII.	OUL	Tem.	,

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M.	Sin.	Cos.	Taa.	Cot.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Oot.	<b>_</b>
•	.35837		.38386		.37461	.92718	40403	2-4751	.39073	.92050		2.3559	60
I	864	348	420	.6028	488	707	436		100	039	482		59
2	891	337	453	.6006	515	697 686	470	.4709	127	028	516		58
3	918	327 316	487 520	.5983	542 569	686 675	504 538		153 180	016 005	551 585		57
4	945	_	-	.5961	-					,			56
5	.35973 .36000	.93300 295	·30553 587	2.5938 .5916	-37595 622	.92004 653		2.4648 .4627	234	982	654	2.3464 - 3445	55
7	027	285	620		649	642			260	971	688		54 53
8	054	274	654	.5871	676	631	674		287	959	722	.3407	52
9	08i	264	687	.5848	703	620	707	4566	314	948			51
10	.36108	.93253	.38721	2.5826	.37730	.92609	40741	2-4545	.39341			2.3369	50
11	135	243	754	.5804	757	598	775	-4525	367	925	826	.3351	49
12	162	232	787	.5782	784	587	809		394				
13	190	222	821	-5759	811	576 365	843	-4484	421	902			47
14	217	211	854	.5737	838	505	877		448	891	929		45
15 16			.38888 921	2.5715	.37805   892	.92554		2.4443		.91879 868		2.3276	45
17	27 I 298	190 180	955	.5693 .5671	919	543 532			501 528		.43032		44
18	325	169	988 988	.5649	946		.41013			845	067		42
19	352		.39022	.5627	973	510			555 581	833	101		41
20		•		2.5605				2.4342			.43136	2.3183	40
21	406	137	089	.5583	.38026	488			635	810	170	.3164	39
22	434	127	122	.5561	053	477			661	799	205		38
23	461	116	156	·5539	080	466	_		688	787	239		37
24	488	106	190	.5517	107	455		-	715	775	274		36
25		.93095		2.5495				2.4242	.39741	.91764		2.3090	35
26	542 569	084	257	·5473	161	432 421		-	768		343		34
27 28	596	074 063	290 324	.5452 .5430	215	410	319 353		795 822	741 729	378 412		33 32
29	623	052	357	.5408	241	399			848	718	447		31
30	_	-		2.5386				2.4142		•		2.2998	30
31	677	031	425	.5365	295	377	455	.4122	902	694	516		29
32	704	020	458	.5343	322	366		.4102	928	683	550	.2962	28
33	731	010	492	.5322	349	355	5 <del>24</del>		955	671	585		27
34		.92999	526	.5300	376	343	558		982	660	620		26
35	.36785			2.5279				2.4043				2.2907	25
36	812	978	593	.5257	430	321	626		035 062	636	689		24
37 38	839 867	967 956	626 660	.5236 .5214	456 483	310 299	660 694	.4004 .3984	088	625 613	7 <del>24</del> 758		23
39	894	945	694	.5193	510	287	728	.3964	115	601	793		21
40	.36921			2.5172	.38537	•	•					2.2817	20
41	948	924	761	.5150	.3°337 564	265	797	.3925	168	578	862	.2799	19
42	975	913	795	.5129	591	254	831	.3906	195	566	897		18
43	.37002	902	829	.5108	617	243	865	.3886	221	555	932		17
44	029	892	862	.5086	644	231	· <b>899</b>	.3867	248	543	966		16
45	.37056		.39896		.38671	.92220	.41933	2.3847		.91531			15
46	083	870	930	.5044	698	209	968	.3828 .3808	301	519 508	036		14
47   48	110	859 849	963 997	.5023 .5002	725 752	198	.42002 036	.3789	328	508 496	071 105	.2691 .2673	13
49	164		.40031	.4981	778	175	070	.3770	355 381	484	140	.2655	11
50	•	-	.40065		.38805				.40408				10
5I	218	816	098		832	152		.3731	434	461	210	.2620	ا ت
52	245	805		.4918	859	141		.3712	461	449	244	.2602	8
53	272	794	166	4897	886	130	207	.3693	488	437	279	.2584	7
54	299	784	200		912	119	242		6 514	425	_	.2566	6
55	.37326				.38939				.40541				5
56	353	762	267		966	096	310	.3635	567	402		.2531	4
57	380	751	301		993	085	345		594	390		.2513	3
58 59	407 434	740	335 360	4792	.39020 046	073 062	379		621 647	378 366	453 488	.2496 .2478	2 1
59 60		729		4772			413			_			i 1
"			.40403					2.3559					
	Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Cot.	Tan.	X.

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Mar.   Section		27°   Sin. Cos. Tan. Cot.				28° .   Sin. Cos. Tan. Cot.				290				
1	M.	Sin.	Cos.	Tan.										
4 451         074         1,1026         9598         999         267         246         8,181         532         434         507         86         099         9570         940         328         8,768         557         420         545         803         7,991         56         5552         420         1,928         8,755         587         420         545         803         7,991         56           554         6221         173         ,9542         101         213         3951         1,856         693         303         697         7,956         58         603         899         267         24,91         1,915         699         303         697         7,956         58         603         303         697         7,956         58         603         303         697         7,956         58         603         303         697         7,956         52         86         632         981         287         1,946         1,944         813         1,946         1,944         881         1,17         657         8637         873         8873         8873         8887         889         38         38         62         1,944         285													1.8040	
3		425					_							
4 503 048 099 .9570 050 240 320 .8755 583 406 583 .7991 56 5 54529 8003 .5013 61.9565 1.9565 6 6 534 021 173 .9542 7 580 008 209 .9528 8 606 .88995 246 .9514 153 185 470 .8702 684 349 .736 .7042 52 8 606 .88995 246 .9514 153 185 470 .8702 684 349 .736 .7042 52 10 .45658 .88968 .51319 1.9486 .47204 .88138 .53545 1.8676 .48735 .87321 .5882 1.7917 50 11 684 955 356 .9472 229 144 582 .8663 701 336 850 .7905 481 12 710 942 393 .9458 255 130 620 .8650 .87931 .5882 1.7917 50 13 736 928 430 .9444 281 117 657 .8637 811 278 926 .7881 47 14 762 915 467 .9430 306 103 694 .8624 .8732 .8886 .969 .964 .7868 46 15 45787 .88902 .51503 1.9416 .47322 .8869 .53731 1.8614 .48862 .87325 .5600 1.7866 45 16 81 88 65 620 614 .9375 490 -048 844 .8572 .9938 221 079 .7882 43 19 891 848 651 .9361 .434 034 882 .8559 964 193 156 .7808 41 19 942 822 724 .9333 91 .9468 .88020 .53320 1.8464 .8988 .8718 .5659 .944 .92 .948 .949 .948 844 .8572 .998 .998 .998 .995 .399 .9255 .46046.88620 .53320 1.8466 .88020 .53320 1.8466 .422 .7783 .39 .994 .795 .798 .938 .836 .953 .929 .9255 .603 .8560 .999 .9255 .603 .8650 .999 .9255 .603 .8650 .999 .9255 .603 .8650 .999 .9255 .603 .8650 .999 .9255 .603 .8650 .999 .9255 .603 .8650 .999 .9255 .603 .8650 .999 .9255 .603 .8650 .999 .9255 .603 .8650 .899 .9255 .603 .8650 .999 .9255 .603 .8650 .899 .9255 .603 .8650 .899 .9255 .603 .8650 .899 .9255 .603 .8860 .899 .999 .9255 .603 .8860 .899 .898 .898 .899 .899 .899 .899 .89				.51020	.9590		•							
5 45539 80935 51136 1.9556 4706 88265 53388 1.8741 48608 87391 5.5621 1.7979 55 56   7 580 008 209 .9528   9 632 981 283 .9500   10 4.5658 88968 5.1319 1.9486   178 172 507 .8689 710 335 774 .7930 51   10 4.5658 88968 5.1319 1.9486   179 10 942 393 .9458   12 710 942 393 .9458   12 710 942 393 .9458   12 710 942 393 .9458   13 736 928 430 .9444   14 762 915 467 .9430   13 68 54 9.9444   14 762 915 467 .9430   13 68 54 9.942   15 1 68 69 88968 5.1419 1.9416   16 8 13 888 540 .9404   17 8 13 888 540 .9404   18 17 8 18 8 1 17 6 57 .8637   18 8 18 565 862 614 .9377   18 8 18 8 540 .9402   18 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   19 8 18 8 18 8 540 .9402   18 18 8 18 8 18 8 540 .9402   19 8 18 8 18 8 18 8 18 8 18 8 18 8 18	- 1		_	•				•					•	
6 554 021 173 9542 101 213 395 8728 634 337 659 7966 54 8 666 88995 246 9514 153 185 470 8702 659 365 697 7954 53 666 88995 246 9514 153 185 470 8702 670 1306 850 697 7957 591 10 4568 8958 51319 1.9486 47204 88183 5.3545 1.8676 710 335 774 7930 51 10 4568 8958 51319 1.9486 47204 88183 5.3545 1.8676 786 229 888 7893 48 13 736 928 430 9444 281 117 657 8637 786 229 888 7893 48 11 77 657 8637 786 229 888 7893 48 11 77 657 8637 786 229 888 7893 48 11 77 657 8637 786 229 888 7893 48 11 77 657 8637 786 229 888 7893 48 11 77 657 8637 786 229 888 7893 48 11 77 657 8637 87 88 1278 926 786 229 888 7893 48 11 278 926 788 127 199 891 848 651 9.9361 49 942 88 84 44 8572 199 891 848 651 9.9361 49 942 88 84 44 8572 938 820 117 7820 42 199 891 848 651 9.9361 49 948 844 8572 938 820 117 7820 42 199 891 848 651 9.9361 49 948 844 8572 938 820 117 7820 42 199 891 848 651 9.9361 49 948 844 8572 938 820 117 7820 42 199 891 848 651 9.9361 49 948 844 8572 938 820 117 7820 42 199 82 822 724 9333 9404 44 64 222 7783 39 945 828 8792 92 562 965 070 8495 944 193 156 7886 41 222 7771 38 12 199 945 798 9.936 561 94 937 145 846 94 193 156 7886 41 937 145 846 94 193 156 7886 41 937 145 846 94 193 156 7886 41 937 145 846 94 193 156 7886 41 937 145 846 94 193 156 7886 41 937 145 846 94 193 156 7886 41 937 145 846 94 194 94 88 879 149 715 52020 9223 695 895 895 858 843 491 86 870 94 9196 749 948 899 895 858 899 81 845 846 949 193 156 7886 94 194 946 948 899 898 88 899 898 898 898 898 898			•											- 1
7   580   008   209   9518   127   199   432   8715   659   363   697   7954   53   59   632   981   283   9500   178   172   507   8689   710   335   774   7930   51   710   345   774   7930   51   710   342   393   9458   229   144   582   8663   761   306   850   7905   49   4913   702   915   467   943   306   850   7905   49   4913   702   915   467   943   306   851   757   8657					.9542				.8728					
8 606 .88995 246 .9514 153 185 470 .8902 684 349 736 .7942 53   9 632 981 283 .9500 178 172 507 .8890 710 335 774 7930 51   10 .4568 .88968 .51319 1.9486 47204 .8818 .53545 1.8676 48735 .87321 .55812 1.7917 50   11	7		008		.9528	127	199							
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12         710         942         393         9458         255         130         620         .8650         786         292         888         .7893         4           14         762         915         467         .9430         306         103         694         .8624         81         17         657         .8637         811         278         262         .7881         47           15         45787         .88902         .51503         1,9416         4332         .88809         .53732         1.8616         888         240         .9402         .8616         813         8875         577         .9388         838         302         .877         .7820         .4882         .2720         .7824         44         44         434         034         8842         .8559         938         888         235         1.7844         44         44         434         034         8842         .8559         936         406         606         957         .8533         49014         164         282         .7783         39           24         46046         .88768         .51872         1.9226         47588         .8791         .54107         .8482 </th <th></th> <th>.45658</th> <th></th> <th>.51319</th> <th>1.9486</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>.87321</th> <th>.55812</th> <th></th> <th>- 1</th>		.45658		.51319	1.9486						.87321	.55812		- 1
13         736         928         430         9444         281         117         657         .8637         811         278         264         .964         .968         46           15         45787         .88902         .51503         1.9416         .47332         .88089         .53732         1.8611         .48862         .8720         .5603         1.7844         44           16         813         888         540         .9402         .358         075         769         .8598         .882         .235         041         .7852         43           18         865         862         614         .9375         409         048         .844         .852         .938         207         117         .7820         44           21         942         822         724         .93333         4740         .882         .537         .99         .955         .968         .4778         .859         .944         .955         .988         .898         .87178         .5604         .94         .945         .940         .945         .940         .945         .940         .945         .940         .945         .940         .945         .940         .													7803	
14         76z         915         467         9430         306         103         694         8624         4862         762         564         768         45         45         45         45         46         765         45         46         7832         8809         5373         1.8611         48862         .925         500         1.7844         44						281			.8637				.7881	
15	1													46
16         813         888         540         .9402         358         075         769         .8598         888         235         041         .7844         44           17         839         875         577         .938         383         062         807         .8585         913         221         079         .824         434         034         884         .8572         938         207         117         .7820         431           19         848         651         .9305         .444         034         884         .8572         938         207         117         .7820         431           24         .486         066         957         .8533         .9014         164         .282         .7783         39         .955         .907         .905         .8504         .49889         .8178         .8694         .916         .8178         .9207         .7771         .38         30         .937         .979         .5402         .906         .926         .907         .8533         .9021         .926         .907         .755         .909         .9265         .907         .907         .8406         .8876         .81872         .923		.45787	.88902		1.9416	.47332			1.8611	.48862	.87250	.56003		
17       839       875       577       .9388       383       ob2       807       .8585       913       221       .079       .7832       43         19       891       848       651       .9361       434       034       882       .8559       964       193       1;0       .7828       43         21       942       822       .724       .9333       486       oo6       957       .8533       .49014       164       242       .7783       39         22       968       808       761       .9319       511       .87993       .995       .8520       .040       150       .270       .7771       .38         24       .46020       782       835       .9292       562       .965       .070       .8495       .090       .121       .347       .7747       .36         25       .46046       .88768       .51872       .19278       .614       .937       .145       .8469       .4910       .8700       .926       .147       .937       .445       .4460       .4910       .8700       .220       .8443       .910       .917       .341       .494       .946       .922       .690		813	888		.9402	358	075	769	.8598	888	235	041	.7844	
19 89ĭ 848 65i .936ĭ 434 034 882 .8559 964 193 156 .7808 41   4,5917.88355 .51688 1.9347 4746 .8802 .53920 1.8546 48989 .87178 .56194 1.7796   4,6927.8835 .5918 .9396   32 994 795 798 .9306   537 979 .54032 .8507 065 136 309 .7759 37   4,602 782 833 .9292   552 965 070 .8495 090 121 347 .7747 36   665 999 .220 .8443   123 728 983 .9237   665 999 .220 .8443   193 156 .7808   41 193 156 .7808   41 232 .7783   39   47602 782 833 .9292   552 965 070 .8495   090 121 347 .7747 36   672 077 755 909 .9265   639 923 183 .8456   166 079 462 .7711   33   350 .46175 .88701 .52057 1.9210   31   201 688 094 .9196   32 226 674 131 .9183   32 226 674 131 .9183   33 252 661 168 .9169   793 840 409 .8379   318 .8693 .8913 .5913 .39101   34 278 647 205 .9155   818 826 446 .8367   330 620 279 .9128   330 620 279 .9128   331 .593 353 .9101   340 .4634 .88634 .52242 1.9142   4784 .87812 .54484 1.8354   4930 .8869 .566 .52427 1.0904   4458 553 464 .9061   4458 553 464 .9061   4458 553 5607 316 .9115   8896 398 .8718 .56194 .7796   340 .46631 .88490 .52613 1.9007   4791 .8783 .8791 .8312   4890 .9887 .5780   39   46690 .88490 .52613 1.9007   4791 .8783 .8913   570 386   370 910 .8900   4893 .8913   4860 .798 .8525   571   589   580 .899 .8763 .55051 .1.8391   4862 .8763 .18291   4863 .8963 .52851 1 .8890   587   488   589   789   381   589   381   589   382   580   789   5824 .8860   588   599   5824 .8840   590   8834   591   591   592   793   794   8887   795   797   798   797   799				577	.9388	383	_							43
20							•				•	•	.7820	
11         042         822         724         9333         486         066         957         .8533         .49014         164         232         .7783         39           23         994         795         798         .9306         537         979         .54032         .8507         065         136         309         .77787         38           24         .46026         .782         835         .9292         552         965         070         .8495         .090         121         347         .77477         38           50         72         755         909         .9255         614         937         145         .8469         141         093         .424         .7773         38           27         795         969         .9225         604         164         937         145         .8469         141         093         .424         .7773         38           28         123         728         83         .9237         665         090         220         .8443         192         044         501         .7667         38         .4916         .8476         .9676         .8433         .2217         .050	1	-	-											1
22						486			.8532				.7782	
23         994         795         798         9.9306         537         979         54032         .8507         090         136         309         .7759         37           24         .46020         782         835         .9292         565         070         .8495         .090         121         347         .7747         36           24         .46046         .88768         .51872         1.9278         .47588         .8951         .54107         1.8482         .49116         .87107         .5638         .141         .093         .424         .7723         .34           27         .097         .741         .946         .9231         .659         .922         .8443         .192         .064         .501         .7699         .32           29         149         .715         .52020         .9223         .690         .868         .258         .8430         .217         .050         .539         .7687         .31           30         .46175         .88701         .52057         .19210         .47716         .87882         .54296         1.8418         .49242         .8906         .568         .212         .6907         .7910         .8318				761	.9319				.8520		•			
24       .46020       782       835       .9292       552       965       .070       .8495       .090       121       347       .7747       36         26       072       755       999       .9265       614       937       145       .8469       141       093       424       .7723       35         27       097       741       946       .9251       639       923       183       .8456       166       079       .462       .7711       33         30       .46175       .88701       .52057       1.9210       .47716       .8782       .54266       1.8418       .49242       .87036       .56577       1.7659       32         31       201       688       094       .9166       741       .868       333       .8405       .226       674       131       .9183       .767       844       .371       .8392       .318       .8693       .903       .733       .840       499       .8379       .318       .8693       .903       .7639       22       .293       .007       .544       .7651       .28         33       252       .661       .168       .9169       .793       .840		994	795	798	.9306	537			.8507					
26         O72         755         999         .9265         614         937         145         .8469         141         O93         424         .7723         34           28         123         728         983         .9237         665         999         220         .8443         192         064         501         .7699         32           39         149         715         .52020         .9223         690         896         258         .8430         217         050         539         .7687         31           30         .46175         .88701         .52057         1.9210         .47716         .87882         .54266         1.8418         .49242         .87036         .65677         1.7663         39           31         201         688         904         .9165         741         .868         333         .8402         .49842         .87036         .65677         1.7663         29           32         266         647         205         .9155         818         826         446         .8367         344         .9884         .8937         .844         .8836         .933         .9409         .896         .784         .	24		782	835	.9292	562							-7747	
27									1.8482					35
28       123       728       983       9237       665       909       220       .8443       192       064       501       .7699       32         30       46175       .88701       .52057       1.9210       .47716       .87882       .54296       1.8418       .49242       .87036       .55577       1.7675       30         31       201       688       094       .9196       741       868       333       .8405       268       021       016       .7663       22         32       226       6674       131       .9183       .767       854       .371       .8392       293       .007       654       .7651       28         33       252       661       168       .9169       .793       840       400       .8379       318       .86993       693       .7639       .27       26         35       46304       .88634       .52242       1.9142       .47844       .87812       .54848       1.8354       .49369       .86964       .56769       1.7615       25         36       330       620       279       .9128       869       796       .522       .8341       .49369		•							- • •					
ag         149         715         52020         .0223         690         896         258         .8430         217         050         539         .7687         31           30         .46175         .88701         .52057         1.9210         .47716         .87882         .54296         1.8418         .49242         .87036         .56577         1.7675         30           31         201         688         094         .9196         767         854         371         .8392         293         007         654         .7651         28           32         226         661         168         .9169         793         840         409         .8379         318         .86933         693         .7639         27           35         .46304         .88634         .52242         1.9142         .47844         .87812         .54484         1.8354         .49369         .8664         .56769         1.7615         28           36         330         620         279         .9128         869         798         522         .8341         394         949         808         .7603         24           37         355         607						039 66r				4		•		
30		_							.8430		•			
31         201         688         094         .9196         741         868         333         .8405         268         021         616         .7663         2g           32         226         674         131         .9183         767         854         371         .8392         233         007         654         .7651         2a           33         252         661         168         .9169         793         840         409         .8379         318         .86993         .693         .7639         27           36         330         620         279         .9128         869         798         522         .8341         394         949         88         .7603         24           37         355         607         316         .9115         895         784         560         .8329         419         935         846         .7591         23           38         381         593         353         .9101         920         770         597         .8316         445         921         .885         .7579         22           40         .46433         .88566         .5247         1.9071         .8	1			-				.54206	1.8418					1 - 1
32         226         674         131         .9183         767         854         371         .8392         293         007         654         .7651         28           33         252         661         168         .9169         793         840         409         .8379         318         .8693         693         .7639         27           35         .46304         .88634         .52242         1.9142         .47844         .87812         .54484         1.8354         .49369         .8669         .7651         25           36         330         620         279         .9128         869         798         522         .8341         .394         949         808         .7603         24           37         355         607         316         .9115         895         784         560         .8329         449         908         .76791         23           38         381         593         353         .9101         .47971         .87743         .54673         1.8291         .4458         .921         .846757         .21           40         .46433         .88566         .52427         1.9074         .47971 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>868</th><th></th><th></th><th>268</th><th></th><th></th><th>.7663</th><th></th></td<>							868			268			.7663	
34         278         647         205         .9155         818         826         446         .8367         344         978         731         .7627         26           35         .46304         .88634         .52242         1.9142         .47844         .87812         .54484         1.8354         .49369         .86964         .56769         1.7615         25           36         330         620         279         .9128         869         798         522         .8341         394         949         808         .7603         24           37         355         607         316         .9115         895         784         560         .8329         419         935         846         .7591         23           38         381         593         333         .901         920         770         597         .8316         445         921         885         .7579         22           40         .46433         .88566         .52427         1.9074         .47971         .87743         .54673         1.8291         .49495         .86892         .5662         1.7556         20           41         458         553         4				131	.9183	767		371	.8392				.7651	
35						793			.8379	_				
36       330       620       279       .9128       869       798       522       .8341       394       949       808       .7603       24         37       355       607       316       .9115       895       784       560       .8329       419       935       846       .7591       23         38       381       593       353       .9101       920       770       597       .8316       445       921       885       .7579       22         40       .46433       .88566       .52427       1.9074       .47971       .8743       .54673       1.8291       .49495       .86892       .56962       1.7556       20         41       458       553       464       .9061       .997       729       711       .8278       .49495       .86892       .56962       1.7556       20         42       484       539       501       .9047       .48022       715       748       .8265       546       863       .039       .7522       18         43       510       526       538       .9034       048       701       786       .8253       571       849       078       .7520<	1			_										
37         355         607         316         .9115         895         784         560         .8329         419         935         846         .7591         23           38         381         593         353         .9101         920         770         597         .8316         445         921         885         .7579         22           39         407         580         390         .9088         946         756         635         .8303         .4445         921         885         .7579         21           40         .46433         .88566         .52427         1.9074         .47971         .87743         .54673         1.8298         .49495         .86892         .56662         1.7550         21           42         484         539         501         .9047         .48022         715         748         .8265         546         863         .039         .7532         18           43         510         526         538         .9034         048         701         .786         .8253         571         .849         078         .7520         17           45         .46561         .88499         .52613						.47844 860		.54484	8247					- 1
38         381         593         353         .9101         920         770         597         .8316         445         921         885         .7579         22           39         407         580         390         .9088         946         756         635         .8303         470         906         923         .7567         21           40         .46433         .88566         .52427         1.9074         .47971         .87843         .54673         1.8291         .49495         .86892         .56962         1.7556         21           42         484         539         501         .9047         .48022         715         748         .8265         546         .863         .039         .7532         18           43         510         526         538         .9034         .048         701         786         .8253         571         .849         .078         .7520         17           45         .46561         .88499         .52613         1.9007         .48099         .87673         .54862         1.8228         .49622         .86820         .57155         1.7496         15         .477         .4816         .49622         .86					-				.8320				, ,	
39         407         580         390         .9088         946         756         635         .8303         470         906         923         .7567         21           40         .46433         .88566         .52427         1.9074         .47971         .87743         .54673         1.8291         .49495         .86892         .56062         1.7556         20           41         458         553         464         .9061         997         729         711         .8278         521         878         .57000         .7544         19           42         484         539         501         .9047         .48022         715         748         .8253         571         849         078         .7520         17           44         536         512         575         .9020         073         687         824         .8240         .596         834         116         .7508         16           45         .46561         .88499         .52613         1.9007         .48099         .87673         .54862         1.8228         .49622         .86820         .57155         1.7496         15           47         613         472			593	-			770	597						
40	_		580			946	756	635	.8303	470	906	923	.7567	1 1
41	40	.46433	.88566			.47971			1.8291	-49495	.86892	.56962	1.7556	20
43         510         526         538         .9034         048         701         786         .8253         571         849         078         .7520         17         14         536         512         575         .9020         073         687         824         .8240         596         834         116         .7508         16           45         .46561         .88499         .52613         1.9007         .48099         .87673         .54862         1.8228         .49622         .86820         .57155         1.7496         15         .613         .472         687         .8980         150         645         938         .8202         672         .791         .232         .7473         13         .48967         .645         938         .8202         697         .777         .271         .7461         12         .745         14         .745         14         .745         .745         14         .745         14         .745         14         .745         14         .745         14         .745         14         .745         14         .745         14         .745         14         .745         14         .745         12         .742         .744								711	.8278	521	878	.57000	.7544	
44       536       512       575       .9020       073       687       824       .8240       596       834       116       .7508       16         45       .46561       .88499       .52613       1.9007       .48099       .87673       .54862       1.8228       .49622       .86820       .57155       1.7496       15         46       587       485       650       .8993       1124       659       900       .8215       647       805       193       .7485       14       48       639       458       724       .8967       175       631       975       .8190       697       797       271       .7461       12         49       664       445       761       .8953       201       617       .55013       .8177       723       762       309       .7449       11         50       .46690       .88431       .52798       1.8940       .48226       .87603       .55051       1.8165       .49748       .86748       .57348       1.7437       10         51       716       417       836       .8927       252       589       089       .8152       773       733       336       .7424									.8265					
45									.8240		049 824	116		
46       587       485       650       .8993       124       659       900       .8215       647       805       193       .7485       14         47       613       472       687       .8980       150       645       938       .8202       672       791       232       .7473       13         48       639       458       724       .8967       175       631       975       .8190       697       777       271       .7461       13         49       664       445       761       .8953       201       617       .55013       .8177       723       762       309       .7449       11         50       .46690       .88431       .52798       1.8940       .48226       .87603       .55051       1.8165       .49748       .86748       .57348       1.7437       10         51       716       417       836       .8927       252       589       089       .8152       773       733       386       .7426       9         52       742       404       873       .8903       303       561       165       .8127       824       704       464       .7402       <			-		-		•	•	•		.86820	.57122	,,,	
47         613         472         687         .8980         150         645         938         .8202         672         791         232         .7473         13           48         639         458         724         .8967         175         631         975         .8190         697         777         271         .7461         12           50         .46690         .88431         .52798         1.8940         .8266         .87603         .55051         1.8165         .49748         .86748         .57348         1.7437         11           51         716         417         836         .8927         252         589         089         .8155         773         733         386         .7426         9           52         742         404         873         .8913         277         575         127         .8140         798         719         425         .7414         8           53         767         390         910         .8900         303         561         165         .8127         824         704         464         .7402         7           54         793         377         947         .8887				650										
48       639       458       724       .8967       175       631       975       .8190       697       777       271       .7461       12         49       664       445       761       .8953       201       617       .55013       .8177       723       762       309       .7449       11         50       .46690       .88431       .52798       1.8940       .48226       .87603       .55051       1.8165       49748       .86748       .57348       1.7437       10         51       716       417       836       .8927       252       589       089       .8152       773       733       386       .7426       9         52       742       404       873       .8913       277       575       127       .8140       798       719       425       .7414       8         53       767       390       910       .8900       303       561       165       .8127       824       704       464       .7402       7         54       793       377       947       .8887       328       546       203       .8115       849       690       503       .7391		613	472	687	.8980				.8202					
50         .46690         .88431         .52798         I.8940         .48226         .87603         .55551         I.8165         .49748         .86748         .57348         I.7437         10           51         716         417         836         .8927         252         589         089         .8152         773         733         386         .7426         9           52         742         404         873         .8913         277         575         127         .8140         798         719         425         .7414         8           53         767         390         910         .8900         303         561         165         .8127         824         704         464         .7402         7           54         793         377         947         .8887         328         546         203         .8115         849         690         503         .7391         6           55         .46819         .88363         .52985         1.8873         .48354         .87532         .55241         1.8103         .49874         .86675         .57541         1.7379         5           57         870         336         059<	48	639	458	724	.8967	175	631	975		697	777	271	.7461	12
51         716         417         836         .8927         252         589         089         .8152         773         733         386         .7426         9           52         742         404         873         .8913         277         575         127         .8140         798         719         425         .7414         8           53         767         390         910         .8900         303         561         165         .8127         824         704         464         .7402         7           54         793         377         947         .8887         328         546         203         .8115         849         690         503         .7391         6           55         .46819         .88363         .52985         1.8873         .48354         .87532         .55241         1.8103         .49874         .86675         .57541         1.7379         5           56         844         349         .53022         .8860         379         518         279         .8090         899         661         580         .7357         4           57         870         336         059         .8847					.8953	1	-							
52       742       404       873       .8913       277       575       127       .8140       798       719       425       .7414       8         53       767       390       910       .8900       303       561       165       .8127       824       704       464       .7402       7         54       793       377       947       .8887       328       546       203       .8115       849       690       503       .7391       6         55       .46819       .88363       .52985       1.8873       .48354       .87532       .55241       1.8103       .49874       .86675       .57541       1.7379       5         56       844       349       .53022       .8860       379       518       279       .8090       899       661       580       .7367       4         57       870       336       059       .8847       405       504       317       .8078       924       646       619       .7355       3         58       896       322       096       .8834       430       490       355       .8065       950       632       657       .7344       2<														
53       767       390       910       .8900       303       561       165       .8127       824       704       464       .7402       7         54       793       377       947       .8887       328       546       203       .8115       849       690       503       .7391       6         55       .46819       .88363       .52985       1.8873       .48354       .87532       .55241       1.8103       .49874       .86675       .57541       1.7379       5         56       844       349       .53022       .8860       379       518       279       .8098       899       661       580       .7367       4         57       870       336       059       .8847       405       504       317       .8078       924       646       619       .7335       3         58       896       322       096       .8834       430       490       355       .8065       950       632       657       .7344       2         59       921       308       134       .8820       456       476       393       .8053       975       617       696       .7332       1<										773				9
54       793       377       947       .8887       328       546       203       .8115       849       690       503       .7391       6         55       .46819       .88363       .52985       1.8873       .48354       .87532       .55241       1.8103       .49874       .86675       .57541       1.7379       5         56       844       349       .53022       .8860       379       518       279       .8090       899       661       580       .7367       4         57       870       336       059       .8847       405       504       317       .8078       924       646       619       .7355       3         58       896       322       096       .8834       430       490       355       .8065       950       632       657       .7344       2         59       921       308       134       .8820       456       476       393       .8053       975       617       696       .7332       1         60       .46947       .88295       .53171       1.8807       .48481       .87462       .55431       1.8040       .50000       .86603       .57735														
55       .46819 .88363 .52985 1.8873       .48354 .87532 .55241 1.8103       .49874 .86675 .57541 1.7379       5         56       844 349 .53022 .8860       379 518 279 .8090       899 661 580 .7367 4         57       870 336 059 .8847 405 504 317 .8078       924 646 619 .7355 3         58       896 322 096 .8834 430 490 355 .8065 950 632 657 .7344 2         59       921 308 134 .8820 456 476 393 .8053 975 617 696 .7332 1         60       .46947 .88295 .53171 1.8807 .48481 .87462 .55431 1.8040 .50000 .86603 .57735 1.7321 0														6
56     844     349     .53022     .8860     379     518     279     .8090     899     661     580     .7367     4       57     870     336     059     .8847     405     504     317     .8078     924     646     619     .7355     3       58     896     322     096     .8834     430     490     355     .8065     950     632     657     .7344     2       59     921     308     134     .8820     456     476     393     .8053     975     617     696     .7332     1       60     .46947     .88295     .53171     1.8807     .48481     .87462     .55431     1.8040     .50000     .86603     .57735     1.7321     0					•			_	•			• -		
57     870     336     059     .8847     405     504     317     .8078     924     646     619     .7355     3       58     896     322     096     .8834     430     490     355     .8065     950     632     657     .7344     2       59     921     308     134     .8820     456     476     393     .8053     975     617     696     .7332     1       60     .46947     .88295     .53171     1.8807     .48481     .87462     .55431     1.8040     .50000     .86603     .57735     1.7321     0					.886o							580	.7367	
59     921     308     134     .8820     456     476     393     .8053     975     617     696     .7332     1       60     .46947     .88295     .53171     1.8807     .48481     .87462     .55431     1.8040     .50000     .86603     .57735     1.7321     0	57		336	059	.8847	405	504	317	.8078	924			·7355	3
60 .46947 .88295 .53171 1.8807 .48481 .87462 .55431 1.8040 .50000 .86603 .57735 1.7321 0	58			-					~ ~					
		_	_											, 1
Cos. Sin. Cot. Tan. Cos. Sin. Cot. Tan. Cos. Sin. Cot. Tan. M.	_00													II
		Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Cot.	Tan.	M.

74 NATURAL SINES, COSINES, TANGENTS, AND COTANGENTS.

										30			
M.	Sin.	Cos.	Tan.	Oot.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Cot.	
0	.54464	83867	.64041	1.5399	.55010	.82004	.67451	1.4826	.57358	.81015	.70021	1.4281	60
i	488	851	982	.5389	943	887	493	.4816	381	899		4273	59
2	513		.65024		943 968	87 i	536	.4807	405	882	107	.4264	58
3	537	819	065	.5369	992	855	578	.4798	429	865	151	4255	57
4	561	804	106	.5359	.56016	839	620	.4788	453	848	194	.4246	56
5	.54586	.83788	.65148	1.5350	.56040	.82822	.67663		-57477	.81832	.70238	1.4237	55
6	610	772	189	.5340	064	806	705	4770	501	815	281	.4229	54
7	635	756	231	.5330	088	790	748	.4761	524	798	325	.4220	53
8	659	740	272	.5320	112	773	790	4751	548	782	368	.4211	52
9	683	724	314	.5311	136	757	832	4742	572	765	412	.4202	51
10	.54708	.83708	.65355	1.5301	.56160	.82741	.67875	1.4733	.57596	.81748	.70455	1.4193	50
11	732	692	397	.5291	184	724	917	4724	619	731	499	.4185	49
12	756	676	438	.5282	208	708	960	.4715	643	714	542	.4176	48
13	781	660	480	.5272	232		.68002	.4705	667	698	586	.4167	47
14	805	645	521	.5262	256	675	045	.4696	691	681	629	.4158	46
15	.54829	.83629		1.5253	.56280		.68088	1.4687	.57715	.81664	.70673	1.4150	45
16	854	613	604	.5243	305	643	130	.4678	738	647	717	.4141	44
17	878	597	646	.5233	329	626	173	.4669	762	631	760	.4132	43
18	902	581	688	.5224	353	610	215	.4659	786	614	804	.4124	42
19	927	565	729	.5214	377	593	258	.4650	810	597	848	.4115	41
20			.05771	1.5204				1.4041	.57833				40
21	975	533	813	.5195	425	561	343	.4632	857 881	563	935	4097	39
22	999	517 501	854 896	.5185 .5175	449	544 528	386 429	.4623 .4614	904	546 530	979 .71023	.4089 .4080	38
23 24	.55024	485	938	.5166	473	511	429 471	.4605	928	513	066	.4071	37 36
				1.5156				1.4596					- 1
25 26	097	.03409 452	.66021	.5147	545	478	557	.4586	976	479	154	.4054	35
27	121	437	063		569	462	537 600	·4577	999	462	198	.4045	34
28	145	421	105	.5127	593	446	642	4568	.58023	445	242	4037	32
29	169	405	147	.5118	617	429	685	4559	047	428	285	.4028	31
30	.55194						.68728				.71329	1.4010	30
31	218	373	230	.5099	665	396	771	.4541	094	395	373	.4011	29
32	242	356	272	.5089	689	380	814	4532	118	378	417	.4002	28
33	266	340	314	.5080	713	363	857	.4523	141	361	461	-3994	27
34	291	324	356	.5070	736	347	900	.4514	165	344	505	.3985	26
35	.55315	.83308	.66398	1.5061	.56760	.82330	.68942	1.4505	.58189	.81327	.71549	1.3976	25
36	339	292	440	.5051	784	314	985	.4496	212	310	593	.3968	24
37	363	276	482	.5042	808		.69028	.4487	236	293	637	-3959	23
38	388	260	524	.5032	832	281	071	.4478	260	276	681	.3951	22
39	412	244	566	.5023	856	264	114	.4469	283	259	725	.3942	21
40	.55436			1.5013	.56880						.71769		20
41	460	212	650	.5004	904	231	200	-4451	330	225	813	.3925	19
42	484	195	692	4994	928	214	243 286	4442	354	208	857	.3916	18
43	509	179 163	734 776	.4985	952 976	198 181	329	·4433 ·4424	378 401	191	901 946	.3908 .3899	17
44	533			-4975		•				174		-	
45			.00818	1.4966	.57000	.82105	.09372					1.3891	15
46	581 605	131 115	902	·4957 •4947	024 047	132	459	.4406 -4397	449 472	140	.72034 078	.3874	14
47	630	098	944		071	115	459 502	4397 4388	496	106	122	.3865	13
49	654	082	986	.4928	095	098	545	·4379	519	089		.3857	11
50			.67028			-	.69588		.58543	•	•		10
51	702	050	071	.4910		065	631	.4361	567	055		.3840	9
52	726	034	113	.4900	167	048	675	4352	590	038	299		8
53	750	017	155	.4891	191	032	675 718	4344	614	021	344	.3823	7
54	775	001	197	.4882	215	015	761	4335	637	004	388	.3814	6
55		.82985	.67239	1.4872	.57238	.81999	.69804	1.4326	.58661	.80987	.72432	1.3806	5
56	823	969	282	<b>.</b> 4863	262	982	847	.4317	684	970	477	.3798	4
57	847	953	324	4854	286	965	891	.4308	708	953	521	.3789	3
58	871	936			310	949	934		731	936		.3781	2
59	895	920	409		334	932			755	919		•••	I
60	.55919	.82904	.67451	1.4826	.57358	.81915	.70021	1.4281	.58779	.80902	.72654	1.3764	0
	Cos.	8in.	Cot.	Tan.	Cos.	Sin.	Cot.	Ten.	Cos.	Sin.	Cot.	Tan.	M.

									,		<b>8</b>		
M.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Oot.	
0	.58779	.80902	.72654	1.3764	.60182	.79864	·75355	1.3270	.61566	.78801	.78129	1.2799	60
1	802	885	699	-3755	205	846	401	.3262	589	783	175	.2792	59
2	826	867	743	·3747	228	829	447	.3254	612	765	222		58
3	849	850 811	788	.3739	251	811	492	.3246	635 658	747	269		57
4	873	833	832	.3730	274	793	538	.3238			316		56
5				1.3722				1.3230			.78363		55
7	920 943	799 782	921 966	.3713 .3705	321 344	758 741	629 675	.3222 .3214	704 726		410 457	.2753 .2746	54
8	967	• •	.73010	.3697	367	723	721	.3206	749	658			53 52
ا و ا	990	748	055	.3688	390	706	767	.3198	772			.2731	51
10	.59014			1.3680		.79688		1.3190			.78598		50
11	037	713	144	.3672	437	671	858	.3182	818	604		.2715	49
12	061	696	189	.3663	460	653	904	.3175	841	586	692	.2708	48
13	084	679	234	.3655	483	635	950	.3167	864	568		.2700	47
14	108	662	278	.3647	506	618	996	.3159	887	550	-		46
15				1.3638	.60529						.78834	1.2685	45
16	154	627	368	.3630	553	583	088	.3143	932			.2677	44
17	178 201	610	413	.3622 .3613	576	565	134 180	.3135	955 978	496 478			43
19	225	593 576	457 502	.3605	599 622	547 530	226	.3119	.62001		975 . <b>79</b> 022	_	42 41
20		.80558		1.3597	.60645				l .	_ `		1.2647	40
21	272	541	·/354/ 592	.3588	668	494	318	.3103	046		117		39
22	295	524	637	.3580	691	477	364	.3095	069	405			38
23	318	507	681	.3572	714	459	410	.3087	092			.2624	37
24	342	489	726	.3564	738	441	456	.3079	115	369	-		36
25	.59365	.80472		1.3555				1.3072			.79306	1.2609	35
26	389	455	816	·3547	784	406	548	.3064	160	000	354		34
37	412	438	861	•3539	807	388	594	.3056	183	315	401	.2594	33
28	436	420 403	906	.3531	830 853	37 I	640 686	.3048	206	297	449 496	.2587	32
29	459		72006	.3522		353		.3040		279 #8261			31
30	.59402 506		.73990 .74041	.3506	899	·79335 318	.70733 779	1.3032	274		·79544 591	1.2572 .2564	30
32	529	351	086	.3498	922	300	825	.3024	297	225	639		28
33	552	334	131	.3490	945	282	871	.3009	320				27
34	576	316	176	.3481	968	264	918	.3001	342	188	734		26
35	.59599			1.3473		.79247	.76964		.62365	.78170		1.2534	25
36	622	282	267	.3465	.61015		.77010	.2985	388				24
37	646	264	312	·3457	038	211	057	.2977	411	134			23
38	669	247	357	·3449	061 084	193	103	.2970	433	116 098		-	22 21
39	693	230	402	.3440		176	149	.2962	456				
40		.80212	·74447				.77196		.02479 502	.78079 061	.80020 067		20
41 42	739 763	178	538	.3424 .3416	130 153	140 122	242 289	. <b>29</b> 46 . <b>29</b> 38	502 524	043	115	.2482	18
43	786	. 160	583	3408	176	105	335	.2931	547	025	163		17
44	809	143	628	.3400	199	087	382	.2923	570	007	211	.2467	16
45	.59832		.74674	1.3392		.79060	-		.62592	.77988	.80258	1.2460	15
46	856	108	719	.3384	245	051	475	.2907	615	"9́70	306	.2452	14
47	879	091	764	·3375	268	033	521	.2900	638	952	354	.2445	13
48	902	073	810	.3367	291	016	568	.2892	660	934	402	.2437	12
49	926	056	855	.3359		.78998	615	.2884	683	916	450	.2430	II
50		.80038					,77661	1.2876	.62706	·77897	.80498		10
51	972	021		-3343		962	708	.2869 .2861		879 861	546	.2415 .2408	8
52 53	60010	003 79986.	991	·3335 ·3327	383 406	944 926	754 801	.2853	751 774	843	594 642		7
54	042	968	082	.3319	429	908		.2846	774 796	824	690		6
55		.79951						1.2838	.62819	_	-		5
56	089	934	173	.3303	474	873	941	.2830	842	788	786	.2378	4
57	112	916	219	.3295	497	855	988	.2822	864	769	834		3
58	135	899	264	.3287	520	837	.78035	.2815	887	751	882	.2364	2
59	158	·881	310	.3278	543	819	082	.2807	909	733	930	.2356	I
бо	.60182	.79864	·75355	1.3270	.61566	.78801	.78129	1.2799	.62932	.77715	.80978	1.2349	0
	Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Cot.	Tan.	Cos.	Sin.	Cot.	Tan.	M.
<u></u>						F.C				F:			

M.	Sin.	Cos.	Tan.	Oot.	Sin.	Cos.	Tan.	Oot.	Sin.	Oos.	Tan.	Oot.	
0		77717	.80978		.64279	76604	82010	1.1018	.65606	.75471	.86929	I.IEOA	60
ī			.81027	.2342	301	586	960	.1910		452	980	.1497	59
2	955 977	678	075	.2334	323	567	.84009	.1903	650		.87031	.1490	58
3	.63000	660	123	.2327	3-3	548	059	.1896	672	414	082	.1483	57
	022	641	171	.2320	368	530	108	.1889	694	395	133	.1477	56
4				-									
5			.81220		.64390		.04150	1.1002	.05710		.87184		55
6	068	605	268	.2305	412	492	208	.1875	738	356	236	.1463	54
7	090	586		.2298	435	473	258	.1868	759 781	337 318	287	.1456	53
8	113	568	364	.2290	457	455	307	.1861			338	.1450	52
9	135	550	413	.2283	479	430	357	.1854	803	299	389	.1443	51
10	.63158	·77531	.81461		.64501	.76417		1.1847	.65825		.87441	1.1436	50
11	180	513	510	.2268	524	398	457	.1840	847	261	492	.1430	49
12	203	494	558	.2261	546	380	507	.1833	869	241	543	.1423	48
13	225	476	606	.2254	568	361	556	.1826	891	222	595	.1416	47
14	248	458	655	.2247	590	342	606	.1819	913	203	646	.1410	46
15	.63271		.81703	1.2239	.64612	.76323	.84656	1.1812	.65935	.75184	.87698	1.1403	45
16	293	421	752	.2232	635	304	706	.1806	956	165	749	.1396	44
17	316	402		.2225	657	286	756	.1799	978	146	801	.1389	43
18	338	384	849	.2218	679	267	756 806	.1792	.66000	126	852	.1383	42
19	361	366	898	.2210	701	248	856	.1785	022	107	904	.1376	41
20	-	_	.81946		.64723	-	-		1	•	.87955		40
21	406	·//34/ 3 <b>2</b> 9	995	.2196	746	210		.1771	066	060	.88007	.1363	39
22	428		.82044	.2189	768		.85006		088	050	059	.1356	38
23	451	292	092	.2181	790	173	057	.1757	109	030	110	.1349	37
24	473	273	141	.2174	812	154	107	.1750	131	011	162	.1343	36
									_				1
25			.82190		.64834		.05157				.88214		35
26	518	236	238	.2160	856	116	207	.1736	175	973	265	.1329	34
27.	540	. 218		.2153	878	097	257	.1729	197	953	317	.1323	33
28	563	199	336	.2145	901	078	308	.1722	218	934	369	.1316	32
29	585	181	385	.21 38	923	059	358	.1715	240	915	421	.1310	31
30		.77162	.82434		.64945						.88473		30
31	630	144	483	.2124	967	022	458	.1702	284	876	524	.1296	29
32	653	125	531	.2117	989	003	509	.1695	306	857	576	.1290	28
33	675 698	107	580	.2109	.65011	.75984	559	.1688	327	838	628	.1283	27
34		088	629	.2102	033	965	609	.1681	349	818	680	.1276	26
35	.63720	.77070	.82678	1.2095	.65055	.75946	.85660	1.1674	.66371	.74799	.88732	1.1270	25
36	742	051	727	.2088	077	927	710	.1667	393	780	784	.1263	24
37	765	033	776	.2081	100	908	761	.1660	414	760	836	.1257	23
38	787	014	825	.2074	I 22	889	811	.1653	436	741	888	.1250	22
39	810	.76996	874	.9066	144	870	862	.1647	458	722	940	.1243	21
40			.82923	1.2050		.75851	.85912	1.1640	.66480		.88992		20
41	854	959	972	.2052	188	832	963		501	682	.89045	.1230	19
42	877		.83022	.2045	210	813	.86014		523	664		.1224	18
43	899	921	071	.2038	232	794	064		545			.1217	17
44	922	903	120	.2031	254	775	115	.1612	566	625	201	.1211	16
	-		.83169	-							.89253		
45	966	.70004 866	218	.2017	298	./2/20	216	1.1606	610	586	.09233		15
46	989	847	268	.2009	320	738	267	.1599	632	567	306 358	.1197 .1191	14
47 48	.64011	828		.2009		719 700	_	.1592				.1184	13
		810	317 366		342	700 680	368	.1585	653	548 5 <b>2</b> 8	410	.1178	11
49	033			.1995	364		-	.1578	675			•	1
50	.04050		.83415	1.1988	.05386		.86419		.00097	.74509	.89515		10
51	078	772		.1981	408	642	470		718	489		.1165	9
52	100	754		.1974	430	623	521	.1558	740	470	620		8
53	123	735		.1967	452	604	572		762	451		.1152	7
54	145	717	613		474	585	623		783	431	725	.1145	6
55	.64167	.76698	.83662	1.1953	.65496	.75566	.86674	1.1538	.66805	.74412	.89777	1.1139	5
56	190	679	712		518	547	725	.1531	827	392		.1132	4
57	212	661	761	.1939	540	528	776	.1524	848	373	883	.1126	3
58	234	642	811		562	509	827	.1517	870	353	935	.1119	2
59	256	623	860	.1925	584	490			891	334	988	.1113	1
60	.64279	.76604	.83910	1.1918	.65606	.75471	.86929	1.1504	.66913	.74314	.90040	1.1106	0
		·											
L	Cos.	Sin.	Cot.	Tan	Cos.	Sin.	Cot.	Tan.	Cos.	8in.	Cot.	Tan.	M.

°

	42°		43°			440							
M.	Sin.	Cos.	Tan.	Cot.	Sin.	Cos.	Tan.	Oot.	Sin.	Cos.	Tan.	Cot.	
0	.66913	.74314	.90040	1.1106	.68200	.73135	.93252	1.0724	.69466	.71934	.96569	1.0355	60
1	935	295	093	.1100	221	116	306	.0717	487	914	625	.0349	59
2	956	276	146	.1093	242	096	360	.0711	508	894	681	.0343	58
3	978	256	199	.1087	264	076	415	.0705	529	873	738	.0337	57
4	999	237	251	.1080	285	056	469	.0699	549	853	794	.0331	56
5			.90304		-		.93524		.69570				55
6 7	043 064	198 178	357 410	.1067	327	016 <b>72</b> 996.	578 633	.0686 .0680	591 612	813 792	907 963	.0319 .0313	54
6	086	159	463	.1054	379	976	688	.0674	633		.97020	.0307	53 52
ا و ا	107	139	516	.1048	391	957	742	.0668	654	752	076	.0301	51
10			.90569	•			.93797	1.0661	.69675				50
11	151	100	621	.1035	434	917	852	.0655	696	711	189	.0289	49
12	172	080	674	.1028	455	897	906	.0649	717	691	246	.0283	48
13	194	061	727	.1022	476	877	961	.0643	737	671	302		47
14	215	041	781	.1016	497		.94016	.0637	758	650	359	.0271	46
15	.67237								.69779				45
16	258	002	887	.1003	539	817	125	.0624	800	610	472		44
17	301	.73983 963	940 993	.0996 .0990	561 582	797	180	.0618	821 842	590 569	529 586		43
19	323		.91046	.0983	603	777 757	235 290	.0606	862	549			42 41
20			.91099				.94345		.69883				40
21	366	904	153	.0971	645	717	400	.0593	904	508	756	.0230	39
22	387	885	206	.0964	645 666	697	455	.0587	925	488	756 813	.0224	38
23	409	865	259	.0958	688	677	510	.0581	946	468			37
24	430	846	313	.0951	709	657	565	.0575	966	447	927	.0212	36
25	.67452	.73826	.91366	1.0945	.68730	.72637	.94620	1.0569	.69987	.71427	.97984	1.0206	35
26	473	806	419	.0939	751	617	676	.0562	.70008		.98041	.0200	34
27	495	787	473	.0932	772	597	731	.0556	029	386	098	.0194	33
28	516	767	526	.0926	793	577	786	.0550	049	366	155	.0188	32
29	538	747	580	.0919	814	557	841	.0544	070	345	213		1
30	.07559 580	.73726 708	.91033	.0907	.00035			1.0538	.70091			1.0176	30
31 32	602	688	740	- •	857 878	517 407	952 .95007	.0532 .0526	132	305 284	327 384	.0164	28
33	623	669	794	.0894	899	477	062	.0519	153	264	441	.0158	27
34	645	649	847	.0888	920	457	118	.0513	174	243	499	.0152	26
35	.67666	.73629	.91901	1880.1	.68941	.72437	.95173	1.0507	.70195	.71223	.98556	1.0147	25
36	688	610	955	.0875	962	417	229	.0501	215	203	613	.0141	24
37	709		.92008	.0869	983	397	284	.0495	236	182	671	.0135	23
38	730	570	062	.0862	.69004	377	340	.0489	257	162	728	.0129	22
39	752	551	116	.0856	025	357	395	.0483	<b>9</b> 77	141	786	.0123	21
40			.92170				.95451				.98843		20
41	795 816	511	224	.0843	067 088	317	506	.0470	319	100	901	.0111	19
42 43	837	491 472	277 331	.0831	109	297 277	562 618	.0464 .0458	339 360		958 .99016	.0099	17
44	859	452	385	.0824	130	257	673	.0452	381	039	073	.0094	16
45			.92439	-				1.0446					15
46	901	413	493	.0812	172	216	785	.0440		.70998	189	.0082	14
47	923	393	547	.0805	193	196		.0434	443	978	247	.0076	13
48	944	373	601	.0799	214	176	897	.0428	463	957	304	.0070	12
49	965	353	655	.0793	235	156	952	.0422	484	937	362	.0064	II
50	.67987		.92709	1.0786	.69256	.72136	.96008	1.0416	.70505	.70916	.99420		10
51	.68008	314	763	.0780				.0410		896	478	.0052	9
52	029	294		.0774 .0768	298	095		.0404	546	875 855	536	.0047 .0041	8
53 54	051	274 254		.0761	319 340	075 055		.0398 .0392	567 587	834	594 652	.0035	7 6
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55 56	115		.93034	.0749	382	015	344		628	793	768	.0023	5 4
57	136	195	088			.71995		.0373	649	772	826		3
58	157	175		.0736	424	974		.0367	670	752	884		2
59	179	155		.0730	445	954	513	.0361	690	731	942		I
60	.68200		.93252	1.0724				1.0355	.70711	.70711	1.0000	1.0000	0
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1	5575 5575	5552 5620	5485 5754	5374 5976	5219 6287	1
2	5575 5575	5551 5622	54 <sup>8</sup> 4 5757	5372 5981	5216 6293	2
3	5575 5575 5575 5575	5551 5623 5550 5625	5482 5760 5481 5763	5370 5985 5367 5990	5213 6299 5210 6305	3 4
		1	5479 5766	5365 5994	5207 6311	5
5	5575 5575 5575 5575	5549 5627 5548 5628	5478 5769	5363 5999	5204 6317	6
7 8	5575 5575	5547 5630	5476 5773	5361 6004	5201 6323	7
8	5574 5576	5547 5632	5475 5776	5358 6008	5198 6329	8
9	5574 5576	5546 5633	5473 5779	5356 6013	5195 6335	9
10	5574 5576	5545 5 <sup>6</sup> 35	5471 5782	5354 6017	5192 6341	10
11	5574 5576	5544 5637	5470 5785 5468 5788	5351 6022 5349 6027	5189 6348 5186 6354	11
13	5574 5577 5574 5577	5543 5638 5542 5640	5467 5792	5347 6031	5183 6360	13
14	5574 5577	5541 5642	5465 5795	5344 6036	5180 6366	14
15	5573 5578	5540 5644	5463 5798	5342 6041	5177 6372	15
16	5573 5578	5539 5646	5462 5802	5340 6046	5173 6379	16
17	5573 5578	5539 5648	5460 5805	5337 6051	5170 6385	17
18	5573 5579	5538 5649	5458 5808 5457 5812	5335 6055 5332 6060	5167 6391 5164 6398	18
19 20	5573 5579	5537 5651			5161 6404	19
21	5572 5580 5572 5580	5536 5653 5535 5655	5455 5815 5453 5818	5330 6065 5327 6070	5158 6410	21
22	5572 5581	5534 5657	5451 5822	5325 6075	5154 6417	22
23	5572 5581	5533 5659	5450 5825	5322 6080	5151 6423	23
24	5571 5582	5532 5661	5448 5829	5320 6085	5148 6430	24
25	5571 5583	5531 5663	5446 5833	5317 6090	5145 6436	25
26	5571 5583	5530 5665	5444 5836	5315 6095	5141 6443	26
27 28	5570 5584 5570 5584	5529 5668 5527 5670	5443 5840 5441 5843	5312 6100 5310 6105	5138 6449 5135 6456	27
29	5570 5585	5526 5672	5439 5847	5307 6110	5132 6462	29
30	5569 5586	5525 5674	5437 5851	5305 6116	5128 6469	30
31	1 5569 5587	5524 5676	5435 5854	5302 6121	5125 6476	31
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33	5568 5588	5522 5681	5431 5862	5297 6131	5118 6489	33
34	5568 5589	5521 5683 5520 5685	5430 5866	5294 6136	5115 6496	34
35 36	5567 5590 5567 5591	5520 5685 5518 5688	5428 5869 5426 5873	5292 6142 5289 6147	5112 6503 5108 6509	35 36
37	5566 5592	5517 5690	5424 5877	5286 6152	5105 6516	37
38	5566 5593	5516 5693	5422 5881	5284 6158	5101 6523	38
39	5566 5593	5515 5695	5420 5885	5281 6163	5098 6530	39
40	5565 5594	5514 5697	5418 5889	5278 6168	5095 6537	40
41	5565 5595	5512 5700	5416 5893	5276 6174	5091 6544	41
42 43	5564 5596 5564 5598	5511 5702 5510 5705	5414 5897 5412 5900	5273 6179 5270 6185	5088 6551 5084 6557	42
44	5563 5599	5509 5707	5410 5905	5268 6190	5081 6564	44
45	5562 5600	5507 5710	5408 5909	5265 6196	5077 6571	45
46	5562 5601	5506 5713	5406 5913	5262 6201	5074 6578	46
47	5561 5602	5505 5715	5404 5917	5259 6207	5070 6585	47
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50 51	5550 5605 5559 5607	5501 5723 5499 5726	5398 5929 5396 5933	5251 6224 5248 6229	5060 6607 5056 6614	50 51
52	5558 5608	5498 5729	5394 5937	5245 6235	5053 6621	52
53	5558 5609	5497 5731	5392 5942	5242 6241	5049 6628	53
54	5557 5611	5495 5734	5389 5946	5239 6246	5045 6635	54
55	5556 5612	5494 5737	5387 5950	5237 6252	5042 6643	55
56 57	5556 5613 5555 5615	5492 5740	5385 5955	5234 6258 5231 6264	5038 6650 5034 6657	56
57 58	5555 5615 5554 5616	5491 5743 5490 5745	5383 5959 5381 5963	5231 6264 5228 6269	5034 6657 5031 6665	57 58
59	5554 5618	5490 5745 5488 5748	5379 5968	5225 6275	5027 6672	59
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